LUDOVICI PFEIFFER

MONOGRAPHIA PNEUMONOPOMORUM VIVENTIUM.

MONOGRAPHIA
PNEUMONOPOMORUM
VIVENTIUM.

SISTENS

DESCRIPTIONES SYSTEMATICAS ET CRITICAS

OMNIUM HUJUS ORDINIS GENERUM ET SPECIERUM HODIE COGNITARUM,

ACCEDENTE FOSSILIUM ENUMERATIONE.

AUCTORE

LUDOVICO PFEIFFER, Dr.

CASSELLANO.

CASSELLIS.

Sumptibus Theodori Fischer.

1852.

LONDON.
Williams & Norgate, 14, Henrietta Street, Covent-Garden.

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Cassellis, typis Theodori Fischer.

PRAEFATIO.

Quae in libro meo 1847 et 1848 edito „Monographia Heliceorum viventium“ de methodo et ratione scribendi praefatus sum, ea hic repetere non in animo est. Terminologia adoptata, methodus metiendi testas, etc. omnino eadem sunt ac in illo libro, et pariter omnes species, quas non ipse vidi et descripsi, eodem signo „†“ distinxi.

Differentia autem gravis in methodo systematica apparebit. In familia Heliceorum pauca admisi genera, testae solum structura vix sufficienter definita; in ordine Pneumonopomorum, charactere essentiali, illi Pneumonobranchiorum familiae deficiente, operculo organico scil. praedito, methodum recentiorum Auctorum secutus, genera ex operculi substantia et conformatione, una cum testae ipsius characteribus circumscripta admisi. Naturae congruum mihi non videtur, si complectimur in uno eodemque genere animalia, quae construunt operculum *Cyclostomatis volvuli* et *elegantis*, vel (ut de Lamarckianis modo speciebus loquar) *Cycl. mammillaris* et *lincinellae*. Genus *Pupina*, adoptatum a plerisque Auctoribus, qui genus Cyclostoma in sensu Lamarckiano servant, difficilius a *Megalomastomate* generice separari potest, quam *Cycl. flavula* a *C. obsoleta Lam.*

At vero gravis determinandi species Cyclostomaceorum difficultas eo exoritur, quod saepe testae in collectionibus servantur vel novae afferuntur operculo destitutae, quare, ut evitarem in ipso libro methodum minime scientificam, quam in Monographia Heliceorum adoptare coactus fui, clavem praemisi analyticam omnium specierum in libro descriptarum, in qua operculi nulla fit mentio. Sic comparatis externis testae characteribus loci facile erui possunt, quibus singula testa in Monographia quaerenda est. Quamvis recentiorum collectorum studiis longe maxima pars specierum cognitarum locum fixum in systemate obtineat, multae tamen restant, quae solum ex analogia testarum uni vel alteri generi attributae sunt. Multa, quae in primo ejusmodi conatu (in Zeitschr. f. Malak. 1847. p 104) erronea fuerunt, temporis progressu jam correcta et emendata sunt, et quae ex deficiente operculi cognitione dubia mihi restant, suo loco exacte indicata sunt.

Numerus specierum huc pertinentium indiem accrescit, et multae, quae antea rarissimae fuerunt, nunc in omnium manibus versantur, quare sperandum est, historiam Pneumonopomorum, junctis viribus et studiis, mox ad illam exactitudinem perventuram esse, qua cognitio aliarum familiarum, praesertim ex Ctenobranchiis, jam gaudet.

Quae in libro, Tibi, Benevole lector, nunc exhibito emendanda et addenda erunt, Deo favente postea in Supplemento proponentur.

Cassellis mense Augusti 1852.

Dr. L. Pfeiffer.

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Clavis analytica
omnium Cyclostomaceorum,
in Monographia descriptorum.

I Testa depressa vel discoidea.

A. Peristomate superne alatim dilatato Pterocyclos 72—87.
B. Peristomate superne non alato.
  a. recto,
    α. tenui.
      * Anfractu ultimo antice soluto Cyclotus 37—40. Aulopoma 90—92. Cyclophorus 177.
      ** Anfractu ultimo non soluto.
        1. Spiraliter striata vel sulcata . . . . Cyclophorus 162—169. Lithidion 297. Otopoma 299.
        2. Oblique rugulosa aut foveolata . . . . Cyclotus 29. 30. 32. 34. 43—45. 47. Cyclophorus 170—172.
        3. Simpliciter striata . . . Cyclotus 27. 28. 31. 48. Cyclophorus 173. 174. 176.
    β. incrassato . . . . Cyclophorus 159—161. Cyclostomus 317.
  b. expanso,
    α. simplice,
      1. Striata . . . . . . Cyclotus 58. 59.
      2. Spiraliter sulcata vel lirata Cyclotus 53—56. Cyclophorus 156. 157. Cyclostomus 342. 343.
      3. Distincte carinata . . . Lithidion 298. Cyclostomus 314—316. 319—321.
    β. incrassato.
      1. Striata . . . . Alycaeus 208.
      2. Spiraliter lirata . . . . Cyclophorus 152—155. Lithidion 294—296.
    γ. duplice.

1. Laevigata . . . . . Cyclotus 63. 68. 69. Cyclophorus 158.
2. Striata . . . . . . Cyclotus 62. 64—67. 70. 71. Choanopoma 278. 279.
3. Acute carinata . . . . Cyclostomus 318.
4. Decussata . . . . . Choanopoma 280. 281.

II. Testa tūrbinato-depressa.

A. Peristomate simplice recto.
   1. Simpliciter striata . . . Cyclotus 33. 35 49—51 Cyclophorus 140. 147.
   2. Oblique rugata . . . . Cyclotus 41. 42. 46.
   3. Spiraliter sculpta . . . Cyclotus 36. Cyclophorus 144.

B. Peristomate incrassato vix expansiusculo.
   a. Margine sinistro in appendicem distinctam dilatato . . . . Cyclophorus 132. 134—136.
   b. Margine sinistro subsimplice.
      1. Umbilico simplice . . . Cyclophorus 101. 102. 126. 141.
      2. Umbilico subcarinato . . Cyclophorus 149.

C. Peristomate simplice expanso.
   a. Ecarinata.
      1. Margine sinistro dilatato Cyclotus 52. Cyclophorus 137. Otopoma 300. 301.
      2. Margine sinistro simplice Cyclophorus 95—98.
   b. Subcarinata.
      1. Spiraliter lirata . . . . Cyclophorus 109. 119. 121.
      2 Sublaevigata . . . . . Cyclophorus 94. 104. 107. 115. 125.
   c. Carinata.
      1. Peristomate continuo . . Cyclophorus 106. 108
      2. Marginibus subdisjunctis Leptopoma 190. 191.

D. Peristomate expanso duplicato.
   1. Sublaevigata . . . . . Cyclotus 61. Cyclophorus 113. 117.
   2. Concentrice sculpta . . Cyclophorus 100. 112. 118. 122. 130.

III. Testa globoso-turbinata.

A. Peristomate continuo.
   a. Anfractu ultimo non soluto.
      α. Peristomate recto,
         1. simplice . . . . . . Craspedopoma 89. Otopoma 311. Cyclostomus 368. 372.
         2. incrassato . . . . . Cyclophorus 127.
      β. Peristomate expansiusculo . Cyclotus 60. Otopoma 310. Cyclostomus 335. 367.
      γ. Peristomate expanso,

* simplice	Cyclophorus 105. 110. Cyclostomus 324. 350.
** incrassato	Cyclophorus 93. 123. 124. Cyclostomus 354.
*** duplicato	
† Ecarinata.	
1. Laevigata	Cyclophorus 99. 103. Choanopoma 275. Cistula 425.
2. Longitudinaliter plicata .	Chondropoma 487.
3. Decussata	Jamaicia 256. Choanopoma 267 – 271. 273. 276.
†† Carinata	Cyclophorus 114. 120. 133. Choanopoma 266.
b. Anfractu ultimo antice soluto.	
α. Peristomate recto.	
1. Laevigata	Craspedopoma 88.
2. Spiraliter striata . . .	Cyclostomus 371. Cistula 427.
3. Longitudinaliter plicata .	Cistula 428.
4. Decussata	Jamaicia 255.
β. Peristomate expanso.	
1. Spiraliter striata . . .	Cistula 426.
2. Decussata	Choanopoma 272. 274. 277.
B. Peristomatis marginibus callo lunatim exciso junctis.	
a. Ecarinata.	
1. Sublaevigata	Otopoma 313. Cyclostomus 345. 346. 349. 353. 369.
2. Spiraliter sulcata . . .	Cyclophorus 139. Cyclostomus 332. 347. 348. 355. 370.
3. Decussata	Cyclostomus 333. 344. 352.
b. Unicarinata	Cyclostomus 340. 341.
c. Pluricarinata	Cyclostomus 322. 323. 325 – 328. 334.
C. Peristomate interrupto.	
a. Marginibus callo brevi junctis.	
* Peristomate recto,	
1. subincrassato	Otopoma 302 – 304.
2. tenui.	Otopoma 305. 306. 308. 309. 312. Cyclostomus 351. Omphalotropis 514.
** Peristomate expanso.	
† Laevigata	Cyclophorus 150. Cyclostomus 366.
†† Spiraliter sculpta	
1. Ecarinata	Cyclophorus 148. Otopoma 304. Cyclostomus 357. 358.
2. Subcarinata	Cyclotus 57. Cyclophorus 111. 116. 131. Cyclostomus 337. 338. 356. 365.

3. Carinata . . . . . . Cyclophorus 129. 146. Cyclostomus 329. 336

b. Marginibus distantibus.

* Peristomate recto . . . . Leptopoma 203—206.

** — expanso,

† simplice incrassato . . . . Leptopoma 189. Bourciera 517.

†† simplice tenui.

1. Ecarinata . . . . . . Leptopoma 178—183.
2. Subcarinata . . . . . Leptopoma 184. 186—188. 194.
3. Carinata . . . . . . Leptopoma 192. 193.

††† duplicato . . . . . . Leptopoma 185.

IV. Testa trochiformis.

A. Anfractu ultimo vix angulato . . Cyclophorus 128. 138. 151.

B. Unicarinata . . . . Leptopoma 196—200.

C. Pluricarinata . . . . Cyclostomus 330. 331.

V. Testa elongato-turbinata.

A. Peristomate recto.

1. Basi carinata . . . . Omphalotropis 509—513. 515.
2. Basi non carinata . . . Cyclophorus 142. 143. 145. Cyclostomus 339. 360. 362. 363. 380—518.

B. Peristomate expanso.

1. Ecarinata . . . . . . Cyclostomus 359. 361. 364. Omphalotropis 516—521.
2. Carinata . . . . . . Leptopoma 195. 201. 202.

C. Peristomate duplicato . . . . Alycaeus 207.

VI. Testa pupaeformis.

A. Imperforata.

1. Perist. basi lateris columellaris inciso . Pupinella 239.
2. — medio lat. colum. inciso . . . . Registoma 248—253.
3. — bicanaliculato . . Pupina 240—247.
4. — integro . . . . Callia 254.

B. Rimata vel subperforata.

a. Perist. basi canaliculato . . . Cataulus 233—238.

b. — integro continuo,

1. recto . . . . Megalomastoma 214.
2. expanso incrassato . . Megalomastoma 215—224.
3. expanso subtenui, plerumque duplicato . . . . Megalomastoma 225—232.

c. Perist. integro interrupto . . . Diplommatina 210—213.
C. Pervie perforata vel umbilicata.
Anfractu ultimo non soluto Adamsiella 282—286.
2 Anfractu ultimo soluto . Adamsiella 287—289.

VII. *Testa ovato-turrita.*

A. Peristomate simplice,
a. recto.
α. Anfractu ultimo non soluto
1. Punctata . . . . Leonia 424.
2. Longitudinaliter striata . Cyclostomus 375. Tudora 401.
3. Spiraliter striata . . . Cyclostomus 376. Chondropoma 467.
4. Clathrata . . . . Choanopoma 261. Cyclostomus 374. 379. Tudora 402. 407. Chondropoma 465.
β. Anfractu ultimo antice soluto.
1. Longitudinaliter striata . Cyclostomus 377. Chondropoma 460.
2. Spiraliter striata . . . Tudora 408.
3. Decussata . . . . . . Cyclostomus 373. 378. Chondropoma 468.
b. breviter expanso.
α. Spiraliter sculpta . . . . Chondropoma 469. 471.
β. Longitudinaliter striata.
1. Anfractu ultimo non soluto Tudora 400. 403. 406. Cistula 430 a. 431.
2. — — soluto . . Tudora 404. 405 Cistula 430. Chondropoma 464. 466. 472.
γ. Subdecussata . . . . . . Tudora 399. Cistula 442. Chondropoma 462.
δ. Clathrata.
1. Anfractu ultimo non soluto Cistula 441. Chondropoma 473.
2. — — antice soluto Tudora 409. Chondropoma 461. 463. 466 a.
c. late expanso . . . . Cistula 429. Chondropoma 459.
B. Peristomate subduplicato.
a. Anfractu ultimo antice soluto.
1. Longitudinaliter striata . Cistula 443. 456.
2. Decussata . . . . . Licina 259. Cistula 440. Chondropoma 474. 475. 478. 484.
b. Anfractu ultimo non soluto.
1. Laevigata . . . . Cyclostomus 383. Tudora 412.
2. Spiraliter striata . . . Chondropoma 470.
3. Longitudinaliter striata . Tudora 410. 411. Cyclostoma 521 a.
4. Decussata . . . . . . Licina 257. Chondropoma 476.

C. Peristomate duplice,
a. externo late expanso.
α. Anfractu ultimo soluto . . . Cistula 444. 445. 445 a. 452.
β. — — non soluto.
* Margine sinistro umbilicum tegente . . . . Choanopoma 264. Tudora 420. 421 Chondropoma 489 – 491. 491 b.
** Umbilico aperto.
1. Laevigata . . . . Cyclostomus 381.
2. Longitudinaliter striata . Cyclostomus 384 – 386. Tudora 417.
3. Decussata . . . . . Licina 258. 260. Tudora 415. 416. Cistula 432—434.
4. Asperato-clathrata . . . Cyclostomus 395. Cistula 435. Chondropoma 488.

b Externo breviter expanso,
α. fimbriato . . . . Cistula 453—455. 457. 458.
β. plano.
* Anfractu ultimo soluto.
† Longitudinaliter striata.
1. Sutura subsimplice . . Cistula 450. 451.
2. — crenata . . . . Cyclostomus 392. 393. Tudora 413. 422. 423. Cistula 448.
†† Decussata.
1. Sutura subsimplice . . Choanopoma 265
2. — crenata . . . . Choanopoma 262. Cyclostomus 396—398. Cistula 446. 447. 449.
** Anfractu ultimo non soluto.
† Longitudinaliter striata . . Cyclostomus 382. 387 – 391. Cistula 438. Chondropoma 482. 483.
†† Decussata.
1. Sutura subsimplice . . Choanopoma 263. Tudora 414. Cistula 436. 439. Chondropoma 479.
2. Sutura crenulata . . . Cyclostomus 394. Tudora 418. 419. Cistula 437. Chondropoma 477. 480. 481. 485. 486.
γ. canaliculato . . . . Chondropoma 491 a.

VIII. Testa turrita.

A. Peristomate basi non appendiculato,
a duplicato,
α. non auriculato.
1. Decussata . . . . . Adamsiella 290. 291. 293.
2. Longitudinaliter striata . Adamsiella 292. Pomatias 500. Realia 502.

β. auriculato	Pomatias 493. 496. 497.
b. expanso simplice	Pomatias 498. 501.
c. — auriculato	Pomatias 492. 494. 495.
d. recto, marginibus disjunctis,	
α. rotundatis.	
1. Anfractu ultimo basi rotundato	Pomatias 499.
2. Anfractu ultimo basi carinato	Omphalotropis 503—508.
β. subparallelis	Acicula 1—5.
B. Peristomate basi appendiculato .	Geomelania 6—26.

Characteribus insolitis praedita.

Anfractu ultimo strangulato	Alycaeus.
Tubulo suturali in anfr. ultimo praedita	Pterocyclos hispidus, Cyclotus Taylorianus et rostellatus, Alycaeus strangulatus, constrictus.
Anfractu ultimo carina umbilicali munito	Cyclotus Jamaicensis et affines, Cyclophorus euomphalus, Cataulus, Omphalotropis (et Stoastoma).
Umbilico clauso	Cyclophorus turbo, ictericus, Leptopoma minutissimum, Otopoma clausum, Cyclostomus bicarinatus, zonatus, Choanopoma pudicum, Tudora ovata, pupoides, Chondropoma Shuttleworthi, Ottonis, Bourciera.

MONOGRAPHIA
PNEUMONOPOMORUM VIVENTIUM

Introductio.

Pneumonopoma sive *Pneumopoma* dicuntur Mollusca terrestria aërem per organa pulmonibus analoga spirantia et operculo organico, pedi animalis affixo, pede retracto testam spiralem claudente, munita.

Animalia hujus ordinis omnia structura valde simili gaudent, qua praeter operculum facile a reliquis molluscis terrestribus (Limaceis, Heliceis, Auriculaceis veris) distinguuntur. Sunt nempe sexus distincti (nec unquam Hermaphrodita, sicut Helicea), et tentaculis 2 contractilibus (non retractilibus) praedita, ad quorum basin posticam vel externam oculi positi sunt. Pallium in nonnullis margine libero praeditum est (quo signo Cl. Férussac familiam Helicinarum a Turbicinis distinxit), in aliis testa omnino absconditum.

Ordo Molluscorum, quem hic tractaturi sumus, primum a Cl. Férussac 1821 (Tabl. syst. p. XXXIII.) tamquam quintus Gasteropodorum ordo sub nomine *Pulmonatorum operculatorum* propositus est ad conjungenda duo genera: *Cyclostoma* et *Helicinam*, quorum intima affinitas naturalis a praecedentibus auctoribus, immo Cl. Cuvier et Lamarck plane neglecta fuerat. Utrumque hocce genus Férussacio typum propriae familiae: *Helicinarum* et *Turbicinarum* sistit.

Cl. Latreille 1825 (Fam. nat. Ed. germ. p. 176.) primum ordinem Gasteropodorum dioicorum nomine *Pneumopomorum* designavit, quem, similiter ac Férussac, in familiam *Helicinidarum* et *Turbicinorum* divisit.

Idem ordo Cl. Menkeo 1828 (Syn. p. 22.) sextus Gasteropodorum est, nomine *Coelopneumonatorum operculatorum* designatus, et in familias *Helicinacearum* et *Cyclostomiatarum* divisus. In altera ejusdem operis editione (1830. p. 39) nomina: *Coelopnoa operculata* et, pro familiis, *Helicinacea* et *Cyclostomacea* prioribus substituta sunt.

Cl. Deshayes 1830 (Encycl. méth. III. p. 552. Tabl.) designationem *Helicineorum (Les Hélicinés)* pro tertia Pulmobranchiatorum familia, genera: *Cyclostoma, Strophostoma* et *Helicinam* complectente, proposuit.

Cl. Wiegmann 1832 (Handb. d. Zool. p. 527. Ed. sec. p. 555.) ordinem nostrum tamquam familiam Pulmonatorum nomine abbreviato *Operculatorum* tractavit, genera ei adscribens: *Cyclostoma*, *Helicinam*, *Steganotomam* et *Pupinam*.

Cl. Anton 1839 (Verzeichn. p. XIII. 52.) nomine *Cyclostomaceorum* familiam designat, praeter *Cyclostoma* et *Helicinam* etiam *Littorinam* minus bene complectentem.

Cl. Hartmann 1840 (Erd- u. Süssw. Gast. Syst. Uebers.) nom. *Pseudobranchiatorum* seu *Teleogeophilorum* genera *Choristoma*, *Pomatiatem* et *Cyclostoma* conjunxit, cui sectioni *Helicina* certe adscripta fuisset, si generum non in Europa obviorum mentio facta esset.

Sectio *Pneumonobranchiatorum operculatorum* a Cl. Gray 1840 (in Turt. Man. Ed. sec. p. 2?3) proposita, etiam nostro ordini congrua est, etsi illo loco solum familia *Cyclostomidarum* tractata sit.

Cl. D'Orbigny 1841 (Moll. Cub. I. p. 199. 236.) in prima familia Pectinibranchiatorum dioicorum *Cyclostomidas* admittit, cui genera: *Odontostoma* (ad Helicea potius referendum), *Helicina*, *Cyclostoma* et *Strophostoma* subjunguntur.

Cl. Reeve 1842 (Conch. syst. II. p. 90.) nomine *Cyclostomaceorum* eundem ordinem designavit, admittens inter ejus genera praeter *Pupinam*, *Cyclostoma* et *Helicinam* etiam *Truncatellam;* quam methodum secuta est Cl. A. Catlow 1845. (Conch. Nom. p. 168.)

Cl. Sismonda 1842 (Syn. an. inv. p. 27.) nomine *Cyclostomatum*, tamquam Gasteropodorum sectionis, *Cyclostoma* et *Helicinam* complectitur.

Cl. Jay 1850 (Catal. of Shells p. 251.) familiam *Cyclostomaceorum* statuit, cujus genera sunt: *Pupina*, *Truncatella*, *Cyclostoma*, *Geomelania*, *Helicina*, *Stoastoma*.

Dividendus videtur ordo Pneumonopomorum ex animalium structura externa, nempe positione oculorum, in subordines duos: *Opisophthalma* (Auriculaceis affinia) et *Ectophthalma*.

SUBORDO I.

Opisophthalma.

Oculi in parte supera capitis pone basin tentaculorum subulatorum positi; pes breviusculus. Unica familia:

Fam. I. Aciculacea.

Character subordinis. — Operculum tenue, spiratum, anfractibus paucis.

Aciculidae Gray 1850. Catal. Cycloph. p. 67.

Genera huc referenda videntur duo: *Acicula* sc. et *Geomelania*, quorum prius, antequam operculum notum fuit*), Carychio et affinibus adnumeratum erat. — *Truncatella Risso*, testae characteribus illis persimilis, immo ratione vivendi amphibia ad genera terrestria accedens, tamen ex recentioribus observationibus Ctenobranchiis potius adnumeranda est.

I. Acicula Hartmann.

Operculum tenuissimum, hyalinum, paucispirum. Testa subimperforata, subcylindrica; peristoma subincrassatum, marginibus subparallelis, callo tenui junctis.

Acicula Hartm. 1821 in Steinm. Neue Alpina I. p. 205. 215.
— *Pfr.* 1841 in Wiegm. Arch. f. Nat. I. p. 225; in Chemn. ed. sec. I. 19. p. 7. 209; Zeitschr. f. Mal. 1847. p. 111.
— *Gray* 1850. Catal. Cycloph. p. 67.
Acme Hartm. 1821 in Sturm Fauna VI. H. 5. p. 37.
— *Fitzing.* 1833. Syst. Verz. p. 110.
— *Beck* 1837. Ind. p. 101.
— *Gray* 1840 in Turt. Man. Ed. sec. p. 222; 1842. Syn. Brit. Mus. p. 91.
— *Thomps.* 1840. Moll. of Irel. p. 29.
Acmea Hartm. 1821 in Neue Alpina I. p. 204. 212.
— *Gray* 1847 in Proc. Zool. Soc. p. 180. n. 502.

*) Cl. Gray (Cat. Cycl. p. 67.) operculum primum a Férussacio (Dict. class. h. n. II. p. 90. 1822.) observatum esse asserit. Cl. Hartmann vero (Gast. p. 2.) operculum adhuc 1823 a Férussacio negatum et a Cl. Charpentier primum detectum esse affirmat.

Pupula Agassiz 1837 in Charpent. Catal. p. 22.
— *Hartm.* 1840. Erd- u. Süssw. Gast. I. p. 1.
— *Herrmannsen* 1847. Ind. gen. Malac. II. p. 364.
Turbo, Auricula, Carychium, Bulimus, Cyclostoma, Auricella (spec.) *Auctt.*

1. A. fusca (Turbo) Walker.

T. subimperforata, cylindrica, lineis longitudinalibus impressis, distantibus sculpta, nitida, corneo-fusca; spira superne attenuata, obtusa; anfr. 6½—7 planiusculi; apertura acute semiovalis; perist. extus subincrassato-limbatum, marginibus callo junctis. — Operc. typicum. — Long. 3, diam. vix 1 mill. (Coll. Nr. 1.)

Turbo fuscus Walk. Test. min. rar. p. 12. t. 2. f. 42.
— — *Wood* Suppl. t. 6. f. 15.
Bulimus lineatus Drap. Tabl. d. Moll. p. 67. N. 6.
— — *Turt.* Man. p. 82. f. 66.
— *subdiaphanus Bivona* teste Villa.
Auricula lineata Drap. Hist. p. 57. t. 3. f. 20. 21.*)
Helix cochlea Studer in Coxe's travels. } teste Hartm.
Auricella lineata Jurine in Helv. Alm. 1817. } teste Hartm.
Carichium acicularis Fér. Essai p. 53. 124. } teste Hartm.
Carychium lineatum Fér. Prodr. p. 100. N. 1.
— — *Michaud* Compl. à Drap. p. 74.
— *cochlea Stud.* Verzeichn. p. 21.
— *fuscum Flem.* Brit. anim. p. 270.
Acicula lineata Hartm. in Neue Alpina I. p. 215.
— *fusca Pfr.* in Zeitschr. f. Malak. 1847. p. 111. (exclusa var.)
— — *Chemn.* ed. II. p. 211. t. 30. f. 23—25.
— — *Stein* Berl. p. 83.
— — *Gray* Catal. Cycloph. p. 68.
Acme lineata Hartm. in Sturm's Fauna VI. H. 6. Taf. 2.
— — *Fitzing.* Syst. Verz. p. 110.
— *fusca Beck* Ind. p. 101.
— — *Gray* Manual p. 223. t. 6. f. 66.
— — *Thomps.* Land- and freshw. sh. Ireland p. 29.
Cyclostoma lineatum Porro?
Pupula lineata Agass. in Charp. cat. p. 22. N. 116.
— — *Villa* Disp. syst. p. 29.

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*) T. cylindrica, oblonga, obtusa, nitida; striis longitudinalibus parallelis distantibus. (Drap. l. c.)

Pupula acicularis lineata Hartm. Erd- u. Süssw. Gast. I. p. 1. t. 1. *).
Truncatella lineata Held Wassermoll. Bayerns p. 22.

Habitat in Germania, Helvetia, Gallia, Britannia, Italia boreali.

Obs. Speciem ubique raram in Britannia interdum sinistrorsam lectam esse asserit Cl. Gray (Man. p. 224.).

2. A. polita Hartmann. 2

T. subimperforata, cylindracea, apice obtusa, glaberrima, nitidissima, pellucida, fusco-cornea; anfr. $5^1/_2$ – 6 convexiusculi, sutura profunda discreti; apertura verticalis, truncato-ovalis; perist. extus incrassatum, marginibus callo tenuissimo junctis. — Operc. normale. — Long. $2^1/_2$, diam. vix 1 mill. (Coll. Nr. 2.)

Carychium lineatum C. Pfr. Naturg. III. p. 43. t. 7. f. 26. 27. **)
Nec Fér.
— — *Rossm.* Icon. VI. p. 54. t. 28. f. 408 ***).
Pupula acicularis polita Hartm. Erd- u. Süssw. Gast. I. p. 5. t. 2. †).
— *lineata var. Villa* Disp. syst. p. 29.
Acicula polita Pfr. in Wiegm. Arch. 1841. p. 226.
— — *Chemn.* ed. II. p. 212. t. 30. f. 26—28.
— *fusca β Pfr.* in Zeitschr. f. Malak. 1847. p. 111.
Truncatella lubrica Held Wassermoll. Bayerns p. 22.

β. Testa subduplo majore; long. $2^1/_3$, lat. $^3/_4$ lin.
Pupula lineata var. Banatica Rossm. Icon. XI. p. 12. t. 53. f. 736.

γ. Minor, gracilior, pallide fusca.

Habitat in Germania (prope Cassellam et Hofgeismar Hassiae, ad rupem Hübichenstein Hercyniae), prope Nyon (Hartmann). Var. β (forsan propria species?) a Cl. Frivaldsky in Banatu, var. γ prope Karfreid in valle Isontii una cum *Acicula spectabili, Pupa Rossmässleri, doliolo, pagodula* etc. a me lecta est.

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*) T. imperforata, cylindrica, apice attenuato, obtuso, fusco-succinea, nitida, striis longitudinalibus, parallelis distantibus; anfr. $6^1/_2$—7 planiusculis; apertura acute semiovata; perist. obtusato, extus callo purpureo cincto. — Alt. $3^1/_3$, lat 1 mill. (Hartm. l. c.)

**) T. cylindrica, oblonga, obtusa, pellucida, nitida; apertura ovata, edentula; labro exterius marginato. — Long. $1^1/_3$, lat. $^1/_3$ lin. (C. Pfeiffer l. c.)

***) T. pygmaea, imperforata, cylindrica, apice attenuato, obtuso, nitidissima, fusca, anfractibus 5 planiusculis; apertura acute semiovata; peristomate obtusato, extus callo concolore cincto. — Alt. $1^1/_4$, lat. $^1/_3$ lin. (Rossm. l. c.)

†) T. imperforata, cylindrica, apice attenuato, obtuso, fusco-succinea, nitidissima, tota glabra; anfr. 6 planiusculis; apertura acute semiovata; perist. obtusato, extus callo purpureo cincto. — Alt. $2^1/_3$, lat. vix 1 mill. (Hartm. l. c.)

3 3. **A. Simoniana Charpentier.**

T. minima, subperforata, cylindraceo-turrita, laevigata, nitida, corneo-albida; spira elongata, obtusiuscula; anfr. 7 convexi, ultimus vix $^1/_4$ longitudinis aequans; apertura verticalis, truncato-ovalis; perist. subincrassatum, marginibus callo junctis, dextro subrepando, columellari breviter reflexo. – Operc.? – Long. vix 2, diam. $^1/_2$ mill. (Coll. Küster.)

Pupula Simoniana Charp. mss.
Acicula Simoniana Pfr. in Zeitschr. f. Malak. 1850. p. 63.

Habitat in Gallia. Testae inanes a Cl. de Saint-Simon in alluvie fluvii Garonne prope Toulouse lectae sunt.

Obs. Differt a praecedentibus anfractibus multo convexioribus et in testa minore numerosioribus, etc.

4 4. **A. spectabilis Rossmässler.**

T. cylindraceo-turrita, obtusa, solidula, confertim costulata, nitida, cornea; anfr. 7 convexiusculi, ultimus $^2/_7$ longitudinis subaequans; apertura subverticalis, oblique semiovalis; perist. extus incrassatum, marginibus remotis, callo tenui junctis, columellari brevi, dextro medio antrorsum sinuato. – Operc. normale. — Long. $5^2/_3$, diam. $1^1/_2$ mill. Ap. $1^1/_3$ mill. longa. (Coll. Nr. 3.)

Carychium spectabile Rossm. Icon. X. p. 36. t. 49. f. 659. *).
Acicula spectabilis Pfr. in Wiegm. Arch. 1841. I. p. 226; Zeitschr. f. Malak. 1847. p. 111.
— — *Chemn.* II. p. 210. t. 30. f. 29—31.
— — *Gray* Cat. Cycl. p. 68. N. 2.
Pupula spectabilis Rossm. Ic. XI. p. 12.
— — *F. Schmidt* Krain. Moll. p. 15.
Truncatella spectabilis Held Wassermoll. Bayerns p. 22.

Habitat rarissima in Carniolia et provincia Austriae littorali. Detecta est ab amicissimo F. Schmidt Labacensi in Monte Nanos, tum a me in valle Isontii (haud procul ab oppido Caporeto), a Schmidt serius in Carniolia inferiore et a Kokeil prope Ober-Laibach.

5 5. **A. striata Quoy et Gaimard.** †

T. longe turriculata, cylindracea, truncata, fulva, longitrorsum valde canaliculata; anfr. 6—7 subobliqui; apertura

*) T. cylindraceo-turrita, obtusa, cornea subtiliter costulata; apertura oblique semiovata; perist. producto, extus callo laevigato cincto. — Alt. $2^1/_2$, lat. $^4/_5$ lin.; anfr. 7. (Rossm. l. c.)

subovalis; perist. crassum, non reflexum; operculum ovale, paucispirum, tenue, pallidum. — Long. 3 lin. (Q. et G.)

Cyclostoma striata Quoy et Gaim. Voy. Astrol. II. p. 186. t. 12. f. 27—30.
Truncatella Quoyi Pfr. in Zeitschr. f. Mal. 1846. p. 187.
Acicula striata Gray Catal. Cycl. p. 68. N. 3.

Habitat in insula Vanikoro.

II. Geomelania Pfr.

Animal sicut Aciculae (teste Gray). — Operculum membranaceum, pellucidum, ovale, anfractibus paucis rapidissime accrescentibus, nucleo basali. — Testa imperforata, turrita; apertura integra, effusa; peristoma simplex, expansum, marginibus junctis, basali in appendicem sublinguaeformem producto.

Geomelania Pfr. in Proc. Zool. Soc. 1845. p. 45; Z. f. M. 1847. p. 111; 1849. p. 115; Chemn. ed. II. Cycl. p. 213.
— *Adams* Contrib. to Conch. N. 2. p. 17.
— *Gray* Catal. Cycloph. p. 68.

1. G. Jamaicensis Pfr. 6

T. turrita, truncata, solidula, arcuatim et subconferte costata, parum nitens, alba; anfr. 6—7 convexiusculi, ultimus basi subangulatus, fere $^1/_6$ longitudinis formans; apertura subverticalis, ovalis; perist. continuum, marginibus superne angulatim junctis, dextro et basali intus incrassatis, subreflexis, columellari appresso; appendix linguaeformis acuta, porrecta. — Long. 12—14, diam. $3^1/_2$ mill. (Coll. Nr. 4.)

Geomelania Jamaicensis Pfr. in Proc. Zool. Soc. 1845. p. 45.
— — *Chemn.* ed. II. Cycl. p. 214. t. 30. f. 19. 20.
— — *Adams* Contrib. to Conch. N. 2. p. 18. *).
— — *Gray* Cat. Cycloph. p. 68.

Habitat in insula Jamaica.

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*) Shell conic-cylindrical, whitish; densely sculptured with strong transverse somewhat angular ribs, which become obsolete only at the anterior extremity of the last whorl; spire with rectilinear outlines; apex truncate; nearly 7 whorls remaining, rather convex, with a well impressed suture; aperture ovate, widely and deeply effuse; labrum much thickened, reflected, very much produced in the lower part; labium rather thick, separated by a slight groove from the penultimate whorl, separated above from the labrum by a small sinus. — Mean diverg. 16°. (Adams l. c.)

7 2. **G. minor Adams.**

T. turrita, truncata, tenuiuscula, confertim et arcuatim costato-striata, hyalino-alba; anfr. 7 convexi, ultimus $^1/_4$ longitudinis paulo superans; apertura ovali-subtriangularis; perist. tenue, vix expansum, marginibus callo junctis, dextro et basali repandis; appendix linguaeformis obtusa. — Long. $10^1/_2$, diam. 3 mill. Ap. fere 3 mill. longa, basi 2 lata. (Coll. Nr. 5.)

Geomelania minor Adams Contrib. to Conch. N. 2. p. 18.*).
— — *Chemn.* ed. II. Cycl. p. 214. t. 30. f. 21. 22.

Habitat in insula Jamaica.

Obs. Differt a praecedente anfractibus angustioribus, convexioribus, costis subtilioribus, confertioribus, peristomate vix expanso, appendice linguaeformi obtusa.

8 3. **G. fortis Adams.** †

Testa elongato-conica, albida; spira rectilinearis; apex truncatus amissis circa 8 anfractibus; anfr. superst. 7, modice convexi, costis circa 36 subtilibus, perarcuatis sculpti; sutura bene impressa; apertura ovata, late et profunde effusa; labrum expansum et reflexum, parte linguaeformi in extremitate antica, oblique et deorsum valde producta, angusta, acuta; labium incrassatum, ab anfr. penultimo subdisjunctum. — Long. 0,6; lat. max. 0,18; lat. min. 0,15 poll. (Ad.)

Geomelania fortis Adams Contrib. to Conch. N. 6. p. 94.

Habitat in insula Jamaica.

9 4. **G. magna Adams.** †

Testa elongato-conica, albida; spira rectilinearis; apex truncatus amissis 8 anfractibus; anfr. superst. $6^1/_2$, modice convexi, costis circa 38 subtilibus, perarcuatis sculpti; sutura bene impressa; apertura ovata, late et profunde effusa; labrum bene expansum et reflexum, parte linguaeformi in extremitate antica lata et obtusa, oblique et lateraliter producta; labium incrassatum, ab anfractu penultimo leviter separatum. —

*) This may be only a variety of the preceding (*G. Jamaicensis*), but the dimensions given below are those of the largest, among several hundreds, which we have seen. The most essential difference is in the aperture, which is but slightly effuse; the labrum is throughout much expanded convexly, and is by no means so disproportionately produced in the lower part. The apex is truncate with the loss of 6 or 7 whorls. — Mean divergence 14 to 15°; length 0,41; greatest breadth 0,13, least br. 0,14 inch. (Adams l. c.)

Long. 0,65; lat. max. 0,19; lat. min. 0,15 poll.; long. partis amissae 0,22 poll. (Ad.)

Geomelania magna Adams Contrib. to Conch. N. 6. p. 94.

Habitat in insula Jamaica.

5. **G. procera Adams.** † 10

T. gracilis, conico-cylindrica, albida, costis circa 30 validis, prominentibus, fere ad marginem anticum continuatis, lineisque numerosissimis microscopicis, leviter impressis in spatiis intercostalibus sculpta; spira rectilinearis; apex truncatus, amissis 7—8 anfractibus; anfr. superst. 7—7½, modice convexi; sutura bene impressa; apertura ovata, late et profunde effusa; labrum bene expansum, reflexum et incrassatum, parte linguaeformi in extremitate antica oblique et deorsum producta, angusta, non acuta; labium incrassatum, ab anfr. penultimo leviter separatum. — Long. 0,63; lat. max. 0,15; lat. min. 0,13 poll. (Ad.)

Geomelania procera Adams Contrib. to Conch. N. 6. p. 95.

Habitat in insula Jamaica.

6. **G. gracilis Adams.** † 11

T. similis *G. procerae*, sed costis subtilioribus et numerosioribus (circa 40 in quovis anfractu), magis minusve inaequidistantibus, striis spiralibus sub lente obsoletis; apex truncatus, amissis 8 anfractibus; pars linguaeformis labri subacuta, oblique et lateraliter valde producta in extremitate infera lateris dextri; labium et labrum aequaliter crassa. — Long. 0,55; lat. max. 0,13; lat. min. 0,11 poll. (Ad.)

Geomelania gracilis Adams Contrib. to Conch. N. 6. p. 95.

β. Minor, costis circa 36; long. 0, 35 poll.

Habitat in insula Jamaica.

7. **G. typica Adams.** † 12

T. gracilis, conica, albida, costis 26—30 prominentibus, acute marginatis, prope extremitatem anticam obsoletis, striisque numerosissimis leviter impressis spiralibus, costas non transgredientibus sculpta; spira rectilinearis; apex truncatus, amissis 7—8 anfractibus; anfr. superst. 7, modice convexi; sutura bene impressa; apertura ovata, late et profunde effusa; labrum expansum, modice incrassatum, parte linguaeformi in extremitate antica lateris dextri, oblique valde producta, perangusta, subacuta; labium incrassatum, subreflexum et praeter

extremitatem superam ab anfractu penultimo separatum. — Long. 0,47; lat. max. 0,125; lat. min. 0,11 poll. (Ad.)

Geomelania typica Adams Contrib. to Conch. N. 6. p. 95.

β. Var. *pygmaea:* long. 0, 3 poll.

Habitat in insula Jamaica.

13 8. **G. expansa Adams.** †

T. valde elongata, conica, albida, costis subconfertim sculpta validis subarcuatis, antice subplanulatis, minus regularibus quam in *G minore*, et obsoletis in dimidio antico anfractus ultimi; spira rectilinearis; apex truncatus; anfr. superst. fere 7, modice convexi; sutura bene impressa; apertura ovata, lateraliter valde expansa, antice late et subprofunde effusa; labrum leviter incrassatum, superne subreflexum, basi magis reflexum et dilatatum; labium tenuiusculum, in concavitatem regionis centralis anfractus penultimi appresse subreflexum. — Long. 0,53; lat. max. 0,185; lat. min. 0,15 poll. (Ad.)

Geomelania expansa Adams Contrib. to Conch. N. 2. p. 18.

Habitat in insula Jamaica.

14 9. **G. affinis Adams.** †

T. similis *G. expansae*, apertura antice perprofunde effusa et parte linguaeformi labri angusta, oblique valde producta; apex truncatus amissis circa 7 anfr. — Dimens. fere praecedentis.

Geomelania affinis Adams Contrib. to Conch. N. 6. p. 96.

Habitat in insula Jamaica.

15 10. **G. media Adams.** †

T. subcylindrica, albida, costis circa 35 perarcuatis, prominentibus, acute marginatis subtilibus sculpta; spira rectilinearis; apex truncatus; anfr. superst. 6, modice convexi; sutura bene impressa; apertura ovata, late effusa; labrum modice expansum et incrassatum, parte linguaeformi in extremitate antica lateris dextri, oblique distincte producta, subangusta, subacuta; labium incrassatum, praeter extremitatem superam ab anfr. penultimo subdisjunctum. — Long. 0,4; lat. max. 0,107; lat. min. 0,1 poll. (Ad.)

Geomelania media Adams Contrib. to Conch. N. 6. p. 96.

Habitat in insula Jamaica.

11. **G. vicina Adams.** † 16

T. similis *G. minori*, divergentia majore distincta, testa plerumque tenuiore, parte linguaeformi lateraliter valde producta, latissima, peripheria anfractus ultimi magis angulata. — Dimens. ut *G. minoris.*

Geomelania vicina Adams Contrib. to Conch. N. 6. p. 96.

Habitat in insula Jamaica.

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12. **G. Hilliana Adams.** † *) 17

T. conico-cylindrica, alba, costis 33—35 parvulis, obtusis, antice et pone labrum obsoletis, sculpta; spira rectilinearis; apex truncatus; anfr. superst. 6 perconvexi; sutura profunda; apertura suborbicularis, modice effusa; labrum bene expansum et reflexum, tenue, parte linguaeformi oblique et lateraliter modice producta, obtusa; labium incrassatum, regulariter reflexum, ab anfractu penultimo leviter disjunctum. — Long. 0,25; lat. max. 0,085; lat. min. 0,07 poll. (Ad.)

Geomelania Hilliana Adams Contrib. to Conch. N. 9. p. 159.

Habitat in insula Jamaica.

13. **G. exilis Adams.** † 18

T. perelongata, conico-cylindrica, albida, costis circa 35 subtilibus, strictis, et striis numerosis subtilibus spiralibus, costas non secantibus sculpta; spira rectilinearis; apex truncatus; anfr. superst. 7 convexi; sutura profunda; apertura late ovata, ampliter subeffusa; labrum leviter expansum et reflexum, parte linguaeformi partem inferam occupante, vix producta; labium incrassatum et reflexum, omnino separatum ab anfractu penultimo. — Long. 0,27; lat. max. 0,064; lat. min. 0,056 poll. (Ad.)

Geomelania exilis Adams Contrib. to Conch. N. 6. p. 97.

Habitat in insula Jamaica.

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*) Huic speciei in catalogo Adamsiano (Apr. 1851) praecedit *G. minor*, novam sectionem inchoans.

19 14. **G. pauperata Adams.** †

T. elongato-conica, albida, costis circa 25 ampliusculis obtusis sculpta; spira rectilinearis; apex truncatus; anfr. superst. 7—8, convexi; sutura bene impressa; apertura ovata, subeffusa; pars linguaeformis labri leviter producta. — Long. 0,21; lat. 0,05 poll. (Ad.)

Geomelania pauperata Adams Contrib. to Conch. N. 6. p. 97.

Habitat in insula Jamaica.

20 15. **G. Beardsleana Adams.** †

T. regulariter conica, valde elongata, albida, costulis confertis obtusis, non obliquis sculpta, antice non carinata; spira rectilinearis; apex truncatus amissis 6 anfractibus; anfr. superst. 8 convexi; sutura profunda; anfr. ultimus subdisjunctus, superne angulatus; labrum acutum, parte anfractui penultimo opposita reflexum, reliquis vix reflexum. — Long. 0,3, lat. 0,07 poll. (Ad.)

Cylindrella Beardsleana Adams Contrib. to Conch. N. 2. p. 19.
Geomelania Beardsleana Adams ibid. N. 6. p. 89.

Habitat in insula Jamaica.

Obs. Operculum hujus speciei Cl. Chitty observavit, teste Adams.

21 16. **G. pygmaea Adams.**

T. minuta, turrita, subtruncata, confertim substricte costulato-striata, diaphana, albida; anfr. superst. 7 convexi, regulariter lente accrescentes; apertura vix obliqua, ovalis, subeffusa; perist. breviter expansum, marginibus callo subsoluto junctis, dextro subdilatato, parte linguaeformi obsoleta. — Long. 4½, diam. vix 1 mill. Ap. ⅔ mill. longa. (Coll. Nr. 6.)

Cylindrella pygmaea Adams in Proc. Bost. Soc. 1845. p. 14.
— — *Pfr.* Mon. Helic. II. p. 386. N. 49.
Geomelania pygmaea Adams Contrib. to Conch. N. 6. p. 89.

Habitat in insula Jamaica.

Obs. Haec species Truncatellarum quarundam juniorum faciem offert.

* * *

22 17. **G. conica Adams.** †

T. elongato-conica, albida, costis 30—35 gracilibus, modice arcuatis sculpta; spira rectilinearis; apex truncatus,

amissis 5 anfractibus; anfr. superst. 7, modice convexi; sutura bene impressa; apertura ovata, subampliter effusa; labrum subexpansum et reflexum, parte linguaeformi in parte infera lateris dextri oblique valde producta, acuta. — Long. 0,39; lat. max. 0,09; lat. min. 0,08 poll. (Ad.)

Geomelania conica Adams Contrib. to Conch. N. 6. p. 97.

Habitat in insula Jamaica.

18. G. pyramidata Adams. † 23

T. elongato-conica, albida, costulis circa 28 obtusis, in anfractu ultimo paulo infra peripheriam evanescentibus sculpta; spira rectilinearis; apex plerumque truncatus, amissis 2—3 anfractibus; anfr. superst. 7—8 convexi; sutura profunda; apertura ampliter ovata, modice effusa; labrum tenuiusculum, subreflexum, parte linguaeformi obtusa, in parte infera lateris dextri modice lateraliter producta; labium subincrassatum et reflexum. — Long. 0,32; lat. max. 0,11; lat. min. 0,09 poll. (Ad.)

Geomelania pyramidata Adams Contrib. to Conch. N. 9. p. 159.

Habitat in insula Jamaica.

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19. G. costulosa Adams. † 24

T. conico-cylindrica, albida, costis circa 40 gracillimis, subarcuatis, basi dilatatis, ad marginem aperturae continuatis, paucisque striis spiralibus, inaequidistantibus leviter impressis sculpta; spira rectilinearis; apex truncatus; anfr. superst. $6^{1}/_{2}$; sutura profunda; apertura ovata, ampliter effusa; labrum modice reflexum et incrassatum, parte linguaeformi in parte infera lateris dextri obtusissima et lateraliter producta; labium incrassatum, ab anfr. penultimo late disjunctum. — Long. 0,37; lat. max. 0,115; lat. min. 0,1 poll. (Ad.)

Geomelania costulosa Adams Contrib. to Conch. N. 6. p. 96.

Habitat in insula Jamaica.

20. G. striosa Adams. † 25

T. conico-cylindrica, albida, costis circa 16 gracillimis subarcuatis, striisque 25—30 spiralibus subtilibus, costas superantibus sculpta; spira rectilinearis; apex truncatus; anfr. superst. 7 modice convexi; sutura profunda; apertura ovata,

ampliter et profunde effusa; labrum expansum, reflexum, incrassatum, parte linguaeformi in parte infera lateris dextri obtuse et oblique subproducta; labium incrassatum, ab anfractu penultimo praeter extremitatem superum subdisjunctum. — Long. 0,38; lat. max, 0,085; lat. min. 0,08 poll. (Ad.)

Geomelania striosa Adams Contrib. to Conch. N. 6. p. 96.

Habitat in insula Jamaica.

26 **21. G. elegans Adams.** †

T. valde cylindrica, albida, costis distantibus, prominentibus, gracilibus, striisque spiralibus numerosissimis (circa 20 in quovis anfractu) eleganter sculpta; spira fere rectilinearis; apex truncatus; anfr. superst. 7 convexi; sutura profunda; apertura ovata, modice effusa; labrum subincrassatum et reflexum, parte infera parum productum; labium prominens, crassiusculum, praeter parvum sinum, quo jungitur labro, ab anfractu penultimo subdisjunctum. — Long. 0,3; lat. max. 0,08; lat. min. 0,07 poll. (Ad.)

Geomelania elegans Adams Contrib. to Conch. N. 2. p. 18.

Habitat in insula Jamaica.

Subordo II.

Ectophthalma.

Oculi in parte laterali capitis ad basin externam tentaculorum positi; pes subelongatus. Operculum corneum vel testaceum, vel distincte spiratum, vel non spiratum, nec concentrice striatum. Distinguantur hoc ultimo charactere familiae duae: *Cyclostomacea* et *Helicinacea.*

Fam. I. Cyclostomacea.

Operculum distincte spiratum, testaceum, cartilagineum vel corneum, anfractibus permultis subaequalibus vel paucis rapide crescentibus. Reliqui characteres subordinis.

Turbicina Féruss. 1821. Tabl. syst. p. XXXIII.
— *Latreille* 1825. Fam. nat. Ed. germ. p. 177.
— *Rang* 1829. Manuel p. 179.
— *Potiez* et *Mich.* 1838. Gal. Douai I. p. 232.
— *Herrmannsen* 1847. Ind. gen. Malac. II. p. 636.

Cyclostomadae Risso 1826. Hist. IV. p. 103.
Cyclostomiatae Menke 1828. Syn. p. 22.
Cyclostomacea Menke 1830. Syn. Ed. alt. p. 39.
— *Pfr.* 1841. Symb. I. p. 4; 1846 in Chemn. Ed. sec. I. 19. p. 7; 1847. Zeitschr. f. Mal. p. 101; 1851. Ib. p. 129; Consp. p. 1.
Cyclostomoidea Fitzing. 1833. Syst. Verz. p. 115.
Cyclostomidae Gray 1840 in Turt. Man. Ed. sec. p. 102. 278; 1842. Syn. Br. Mus. p. 91.
— *Trosch.* 1847. Zeitschr. f. Mal. p. 42.
Cyclostomina Milne-Edw. 1841. Elém. Zool.
Cyclostomoidae Agass. 1847. Nom. zool. Ind. univ.
Cyclophoridae Gray 1847. Proc. Zool. Soc. p. 181; 1850. Cat. Cyloph. p. 5.

Haec familia auctoribus diu pro unico genere Cyclostomate Lam. exstitit, donec ex accuratiore novarum specierum eorumque operculorum cognitione necessitas constiterit, ab initio pauca, sensim plura genera ab eo separandi, quae suo loco enumerabuntur vel inter synonyma citanda erunt.

Sicut 1851 in Conspectu emendato generum et specierum Cyclostomaceorum (p. 3. Conf. Zeitschr. f. Mal. 1851. p. 131.) exposui, ex formatione operculorum tres series generum primarie distingui possunt, et quaevis series iterum ex operculorum substantia et testarum characteribus varios typos generum magis minusve exacte definiendorum offert.

Quare eandem methodum ac in Conspectu servans, sequentia Cyclostomaceorum genera adoptavi:

Series prima. Operculum circulare, saepe extus concavum, anfractibus multis lente accrescentibus formatum, nucleo centrali.

I. Operculum testaceum. Genera: *Cyclotus, Alycaeus, Diplommatina.*

II. Operculum cartilagineum. Genus: *Pterocyclos.*

III. Operculum corneum. Genera: *Craspedopoma, Aulopoma, Cyclophorus, Leptopoma, Megalomastoma, Cataulus, Pupinella. Pupina, Registoma, Callia.*

Series secunda. Operculum subcirculare, anfractibus paucis, sensim accrescentibus, nucleo subcentrali.

I. Operculum testaceum. Genera: *Jamaicia, Licina?, Choanopoma.*

II. Operculum cartilagineum. Genus: *Adamsiella.*

Series tertia. Operculum ovale vel angulatum, anfractibus paucis, magis minusve celeriter accrescentibus, nucleo excentrico.

I. Operculum testaceum. Genera: *Lithidion*, *Otopoma*, *Cyclostomus*, *Tudora*, *Leonia*.

II. Operculum cartilagineum, extus strato tenui testaceo tectum. Genus: *Cistula*.

III. Operculum pure cartilagineum. Genus: *Chondropoma*.

IV. Operculum duplex, intus concameratum. Genus: *Pomatias*.

V. Operculum corneum. Genera: *Realia*, *Omphalotropis*, *Bourciera*.

A. Operculum circulare, saepe extus concavum, anfractibus multis lente accrescentibus formatum, nucleo centrali.

I. Cyclotus Guilding.

Operculum orbiculare, testaceum, arctispirum, extus concaviusculum, margine anfractuum subincrassato vel in laminam incurvatam elevato, nucleo subcentrali. – Testa subturbinato-depressa vel discoidea; peristoma continuum vel marginibus callo junctis, simplex vel duplicatum, rectum vel expansum.

Cyclotus Guild. in Swains. Malac. p. 186. 336.*)
— *Gray* Syn. Brit. Mus. Ed. 1842. p. 91; Proc. Zool. Soc. 1847. p. 182 et Catal. Cycloph. p. 5.
— *Herrmannsen* Ind. gen. Malacoz. I. p. 350.
— *Pfr.* in Z. f. M. 1851. p. 132; Consp. p. 4.
Aperostoma Trosch. in Zeitschr. f. Malak. 1847. p. 44. (ex parte.)
— *Pfr.* ibid. 1847. p. 47. 104.
Cyclostoma spec. *Auctt.*

Species huc pertinentes sequente modo distribui possunt:

I. Peristomate simplice,
a. recto . . . . §. 1. Nr. 1—25.
b. expanso . . . . §. 2. — 26—34.
II. Peristomate duplicato . . . §. 3. — 35—45.

§. 1.

1. C. giganteus Gray.

27 T. late umbilicata, subdepressa, solida, confertim rugoso-striata, sub epidermide corneo-fulva, fasciatim decidua alba;

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*) Nearly discoidal; pillar none; spire scarcely raised, and the tip obtuse; a small siphon at the top part of the aperture. Types: *C planorbulus* Enc. m. 461. f. 3. — *C. variegatus Sw.*, Sow. Gen. f. 1. (Swains. l. c.)

spira brevis, acutiuscula, rubescens; anfr. $5\frac{1}{2}$ convexi, celeriter accrescentes, ultimus juxta suturam linea impressa notatus, antice subdeflexus, subtus convexior, subtilius striatus; apertura magna, oblique ovalis, intus alba, nitida; perist. rectum, obtusum, marginibus callo albo angulatim junctis, dextro repando. — Operc. normale, anfr. 10—11. — Diam. maj. 50, min. 38, alt. 22 mill. Ap. 25 mill. longa, 22 lata. Operc. diam. 19 mill. (Coll. Nr. 1.)

Cyclostoma giganteum Gray mss. in Mus. Brit.
— — *Sow.* in Proc. Zool. Soc. 1843. p. 30. *)
— — *Sow.* Spec. Conchyl. f. 9. 10.
— — *Sow.* Thes p. 92. N. 5. t. 23. f. 8. 9.
— — *Reeve* Conch. syst. t. 184. f. 17.
— — *Chemn.* ed. II. Cycl. p. 11. N. 2. t. 1. f. 11—14.
— *Cumingii? Jay* Catal. 1839. p. 122. t. 7. f. 4. 5.
Aperostoma giganteum Pfr. in Zeitschr. f. Malak. 1847. p. 104.
Cyclotus giganteus Gray Catal. Cycloph. p. 6. N. 1.
— — *Pfr.* Consp. N. 1.

Habitat in sylvis prope Panama, St. Elena Columbiae occidentalis.

2. **C. Quitensis Pfr.** 28

T. umbilicata, depressa, solida, superne striatula, nitida, saturate castanea; spira brevis, conoideo-elevata; sutura profunda; anfr. $4\frac{1}{2}$ convexi, rapide accrescentes, ultimus ad suturam depressus, rugatus, peripheria cingulo angusto lutescente et fascia lata nigricante ornatus, basi fusco-virens, circa umbilicum infundibuliformem confertim radiato-plicatus; apertura parum obliqua, irregulariter ovalis, dextrorsum producta, intus livescens; perist. rectum, subincrassatum, continuum, marginibus superne angulatim junctis, sinistro ad anfr. penultimum breviter appresso. — Operc. testaceum, planum, arctispirum, nucleo centrali, excavato, marginibus anfr. subelevatis. — Diam. maj. 37, min. 27, alt. 15 mill. Ap. 16 mill. longa et lata. (Coll. Nr. 2.)

*) T. orbiculato-subdepressa, crassiuscula, albicante, epidermide cornea, fulva induta, apice rufescente; anfr. 5—6 rotundatis, transversim striatis, striis superne validioribus; sutura distincta; stria longitudinaliter impressa prope suturam; apertura subeffusa, superne angulata et in canalem inconspicuum subdecurrente; peritremate subincrassato; umbilico magno; operculo linea elevata, spirali, interstitiis oblique striatis. (Sow. l. c.)

Cyclostoma Quitense (Cyclotus) *Pfr.* in Proc., Zool. Soc 1851.
— — *Chemn.* ed. II. Cyclost. N. 355. t 44. f. 19—22.
Cyclotus Quitensis Pfr. Consp N. 2. p. 50.

Habitat Quito.

29 3. **C. cingulatus Sowerby.**

T. mediocriter umbilicata, depressa, crassiuscula, undique irregulariter rugoso-granulata, nitidula, olivaceo-castanea; spira brevissima, obtusiuscula; anfr. $4^{1}/_{2}$ convexiusculi, rapide accrescentes, ultimus antice descendens, medio obtuse carinatus, infra medium fascia lata nigricante ornatus; apertura subcircularis, superne vix angulata, intus coerulescens; perist. simplex, rectum, continuum, margine dextro semicirculari, sinistro subincrassato, leviter arcuato. — Operc. ut Nr. 1. — Diam. maj. 35, min. 27, alt. 19 mill. Ap. oblique 18 mill. longa. (Mus. Cuming.)

Cyclostoma cingulatum Sow. Thes. p. 93. N. 9. t. 29. f. 213. 214.*)
— — *Chemn.* ed II. Cycl. N. 176. p. 163. t. 22. f. 20—22.
Aperostoma cingulatum Pfr. in Zeitschr. f. Mal. 1847. p. 104.
Cyclotus cingulatus Gray Cycloph. p. 6. N. 2.
— — *Pfr.* Consp. N. 3.

Habitat in Nova Granada (Powis), Columbia.

30 4. **C. laxatus Sowerby.**

T. latissime umbilicata, depressa, subdiscoidea, ambitu auriformis, confertim costato-striata et oblique malleato-rugosa, fulvo-castanea; spira vix elevata, vertice rubro, obtuso; anfr. $4^{1}/_{2}$ convexi, rapide accrescentes, ultimus antice dilatatus, medio subcarinatus, ad carinam nigro-castaneo unifasciatus, subtus validius plicatus; minute malleatus; apertura obliqua, transverse subovalis, intus margaritacea; perist. simplex, rectum, continuum, breviter adnatum. — Operc.? — Diam. maj. 36, min. 27, alt. 13 mill. Ap. oblique 16 mill. longa, 15 lata. (Mus. Cuming.)

*) T. suborbiculari, subdepressa, crassiuscula, albicante, epidermide castaneo-fusca induta; spira brevi, obtusa; anfr. 4 rotundatis, rugulosis, cingulo ad peripheriam levatiusculo, nigro; apertura circulari; peritremate subincrassato, simplici, postice subacuminato; umbilico magno, intus transversim striato, extus rugoso. (Sow. l. c.)

Cyclostoma laxatum Sow. Thes. Suppl. p. 159*. N. 181. t. 31 A. f. 302. *)
— — *Chemn.* ed. II. Cyclost. N. 245. t. 35. f. 3. 4.
Cyclotus laxatus Pfr. Consp. N. 4.

Habitat in Columbia.

5. **C. Inca Orbigny.** 31

T. late umbilicata, depressa, solidula, confertim plicato-striata, olivaceo-cornea, infra peripheriam castaneo late unizonata; spira parum elevata, apice plerumque rubicunda; anfr. $4^1/_2$ convexi, celeriter accrescentes, ultimus subteres, antice vix descendens; apertura parum obliqua, ovali-rotundata, intus margaritacea; perist. simplex, rectum, continuum, anfr. penultimo breviter adnatum, margine columellari regulariter arcuato, subincrassato. — Operc. arcte sub-8-spiratum. — Diam. maj. 27, min. 22, alt. 13 mill. Ap. 13 mill. longa. (Coll. Nr. 3.)

Cyclostoma Inca Orb. Synops. p. 29. N. 2. **)
— — *Orb.* Voy. Amér. p. 361. t. 16. f. 21—23.
— — *Sow.* Thesaur. p. 92. N. 6. t. 24. f. 71. 72.
— — *Chemn.* ed. II. Cyclost. N. 3. p. 12. t. 1. f. 5—7.
— *Blanchetiana Moric.* Mém. Genève VII. p. 442. t. 2. f. 21—23. ***)
— — *Pot.* et *Mich.* Gal. I. p. 233. t. 23. f. 21. 22.
— — *Desh.* in Lam. hist VIII. p. 366. N 29.
— *Colombiensis Fér.* Mus. teste Orb.
— *nobile Fér.* Mus. test. Pot. et Mich.
Aperostoma Inca Pfr. in Zeitschr. f. Malak. 1847. p. 104.
Cyclotus Inca Gray Catal. Cycloph. p. 6. N. 3.
— — *Pfr.* Consp. N. 5.

β. Minor, saturate viridis, linea pallida ad peripheriam et fascia lata nigricanti-viridi infra illam.

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*) T. orbiculari-depressa, albida, epidermide aurantiaco-brunnea induta; spira depressa, apice rufescente; anfr. 4 rotundatis, rugulosis, ultimo zonis 2, altera albida, altera fusca, striis incrementi validis; apertura subdepresso-circulari, postice prope ultimum anfractum paulisper angulata; peritremate tenui, antice paululum reflexo; umbilico maximo, anfractibus 4 conspicuis. (Sow l. c.)

**) T. orbiculato-depressa, subcrassa, transversaliter striata, viridescente; fascia nigricante cum albicante linea media; spira prolongata; suturis profundis, anfr 5; apertura circulari; labro tenui, intus caerulescente. — Lat. 34, alt 19 mill. — Habitat republica Boliviana. (Orb. l. c.)

***) T. orbiculato-depressa, late umbilicata, transversim tenue striata, sub epidermide olivaceo alba fusco-unizonata; apertura alba subrotunda, vix marginata. — Diam. 30 mill. — Habitat in sylvis Coxeirae. (Moric. l. c.)

Habitat in Bolivia, in Brasilia et prope La Guayra.

Obs. Animal teste d'Orbigny glabrum, roseum; pes elongatus, postice acuminatus; tentacula conica, rubra.

32 6. **C. stramineus Reeve.**

T. umbilicata, depressa, subdiscoidea, tenuis, diaphana, straminea, oblique confertissime plicato-striata, striis ab umbilico latiusculo, pervio exorientibus, diagonaliter antrorsum assurgentibus; spira vix elevata, obtuse mucronulata; anfr. 4½ convexi, juxta suturam rugulosi, ultimus subdepressus; apertura subcircularis, superne subangulata; perist. rectum, subincrassatum, marginibus approximatis, callo tenui angulatim junctis. — Operc. ut praeced. — Diam. maj. 25, min. 19, alt. 12 mill. Ap. oblique 12 mill. longa, 11 lata. (Coll. Nr. 4.)

Cyclostoma stramineum Reeve in Proc. Zool. Soc 1843. p 46.*)
— — *Sow.* Thes. p. 93. N. 8. t. 29. f. 211. 212.
— — *Chemn* ed. II. Cyclost. N. 90. p. 94. t. 12. f. 6. 7. t. 35 f. 7—9.
Aperostoma stramineum Pfr. in Zeitschr. 1847. p. 104.
Cyclotus stramineus Gray Catal. Cycloph. p. 7. N. 6.
— — *Pfr.* Consp. N. 6.

Habitat Merida Columbiae occidentalis (Reeve), nec non La Guayra (Tams).

Obs. Conf. persimiles *Cyclophorus ponderosus, texturatus* et *Dysoni.*

33 7. **C. translucidus Sowerby.**

T. umbilicata, turbinato-globosa, tenuiuscula, confertim plicatulo-striata, sub epidermide corneo-virente albida, translucida; spira breviter conoidea; anfr. 5 convexi, ultimus ventrosus; umbilicus angustus, pervius; apertura oblique ovalis, intus margaritacea; perist. simplex, rectum, acutum, marginibus angulatim junctis, columellari subeffuso. — Operc. immersum, anfr. 7, extimo multo latiore. — Diam. maj. 23, min. 19, alt. 15 mill. — Long. apert. 12 mill. (Coll. Nr. 5.)

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*) T. orbiculari, subdepressa, stramineo-lutea, spira versus apicem rosacea; usquequaque elegantissime striata, striis, ab umbilico exorientibus, diagonaliter collocatis; apertura fere circulari, superne subsinuata; peritremate simplici; operc. testaceo, albo, multispirato. (Reeve l. c.)

Cyclostoma translucidum Sow. in Proc. Zool. Soc. 1843. p. 29. *)
— — *Sow.* Thes. N. 46. p. 106. t. 23. f. 4.
— — *Chemn.* ed. II. Cycl. N. 4. p. 13. t. 1. f. 8—10.
Aperostoma translucidum Pfr. in Zeitschr. f. Malak. 1847. p. 104.
Cyclotus translucidus Gray Catal. Cycloph. p. 10. Nr. 22.
— — *Pfr.* Consp N. 7.

Habitat in Columbia.

8. **C. asperulus Sowerby.** 34

T. umbilicata, orbiculato-subdepressa, tenuiuscula, punctis impressis, confertis ubique subgranulata, vix diaphana, sub epidermide lutescente albida; spira parum elevata, apice obtusiuscula; anfr. 4 celeriter accrescentes, convexi, ultimus obsolete angulatus, antice dilatatus, circa umbilicum latiusculum non compressus; apertura subobliqua, subcircularis, superne angulata, intus nitida; perist. simplex, continuum, rectum, margine sinistro medio subincrassato, superne appresso. — Operc. 6-spiratum, margine anfractuum vix prominente. — Diam. maj. 18, min. 14, alt. 10 mill. Ap. 9 mill. longa, 8 lata. (Coll. Nr. 6.)

Cyclostoma rugulosum Sow. in Proc. Zool. Soc. 1843. p. 29. **) Nec Pfr.
— *asperulum Sow.* Thes N. 2. p. 91. t. 23. f. 3.
— — *Chemn.* ed. II. Cyclost. N. 158. p. 148. t. 20. f. 16. 17.
Aperostoma asperulum Pfr. in Zeitschr. f. Mal. 1847. p. 104.
Cyclotus asperulus Gray Catal. Cycloph. p. 10. N. 24.
— — *Pfr.* Consp. N. 8.

Habitat in insula Jamaica.

9. **C. Popayanus Lea.** 35

T. umbilicata, turbinato-depressa, tenuiuscula, irregulariter rugoso-striata, olivaceo-fulvida, strigis saturatioribus radiata, albido-unicingulata; spira depresso-conoidea, apice subpapil-

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*) T. subglobosa, subpellucida, alba, epidermide cornea induta; spira breviuscula, obtusa; anfr. 4 rotundatis, prope suturam elevatiusculis, striatis, superne rugulosis; apertura subcirculari, superne subacuminata; peritremate acuto; umbilico mediocri; operc. testaceo, tenuiusculo, anfr. 7 striatis (Sow. l. c.)

**) T. orbiculato-subdepressa, tenui, translucida; anfr. 4—5 rotundatis, rugulosis; sutura distincta; apertura rotundata, superne acuminatiuscula; peritremate tenui, margine acutiusculo; umbilico magno. (Sow. l. c.)

lata; anfr. $4^1/_2$—5 convexi, celeriter accrescentes, ultimus teres, antice subdescendens; umbilicus latiusculus, profundus; apertura parum obliqua, rotundato-ovalis, superne angulata, intus margaritacea; perist. continuum, rectum, superne breviter adnatum, margine columellari subincrassato. — Operc. normale. — Diam. maj. 23, min. 19, alt. 12 mill. (Coll. Nr. 7.)

Cyclostoma Popayana Lea Observ. II. p. 94. t. 23. f. 76. *)
— *Popayanum Chemn.* ed. II. Cyclost. N. 48. p. 55. t. 7. f. 7—10.
— *inconspicuum Sow.* Thes. N. 156. p. 109. t. 24. f. 73. 74. **)
Aperostoma Popayanum Pfr. in Zeitschr f. Mal. 1847. p. 104.
Cyclotus inconspicuus Gray Catal. Cycloph. p. 10. N. 23.
— *Popayanus Pfr.* Consp. N. 9.

β. Major: diam. maj. 29, min. 24, alt. 15 mill. Ap. 14 mill. longa, 13 lata. (Mus. Cuming.)

Habitat in Nova Granada (prope Popayan: Gibbon), Chimborazo (Linden), Columbia (Funck).

36 10. **C. semistriatus Sowerby.**

T. mediocriter umbilicata, turbinato-depressa, tenuiuscula, superne liris spiralibus subtilibus confertis sculpta, fusco-corneo variegata, basi laevigata, albida, in umbilico spiraliter sulculata; spira conoidea, acutiuscula; anfr. 4—5 rotundati, ultimus vix descendens; apertura obliqua, ovali-rotunda; perist. rectum, acutum, marginibus ad anfr. penultimum callo brevi angulatim junctis, dextro subrepando, columellari reflexiusculo. — Operc.? — Diam. maj. $13^1/_2$, min. 11, alt. $8^1/_2$ mill. Ap. 7 mill. longa, $5^1/_2$ lata. (Mus. Cuming.)

Cyclostoma semistriatum Sow. in Proc. Zool. Soc. 1843 p. 29. ***)
— — *Sow.* Thes. N. 3. p. 91. t 23. f. 6.

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*) T. obtuso-convexa, albida, pellucida, longitudinaliter striata, late umbilicata, unifasciata; anfr. 4; apice acuminato; labro acuto; operculo subcrasso. — Diam. 0,8, long. 0,5″. — Similis C striato Lea, transversim striato. (Lea l. c.)

**) T. suborbiculari, depressiuscula, albicante, laevi, subrugulosa, spira depressa, obtusa; anfr. 4 subventricosis, subdeclivibus, sutura distincta; apertura suborbiculari, superne acuminata; peritremate tenui, acuto; umbilico magno. (Sow. l. c.)

***) T. orbiculato-subdepressa, tenui, albida, fasciis pallide fuscis interruptis; spira subprominula, apice obtusiusculo; anfr. 4—5 rotundatis, superne longitudinaliter striatis, infra laevibus; sutura distincta; apertura circulari, superne subacuminata; peritremate obsoletissime subreflexo, tenui, margine acutiusculo; umbilico magno; operc. sulco externo spirali, anfr. 4—5. (Sow. l. c.)

Cyclostoma semistriatum Chemn. ed. II. Cycl. N. 156. p. 147. t. 20. f. 10—12.
— *fasciatum Hutt.* mss. in Mus Brit.
— *album Hutt.* mss. in Mus. Brit.
Aperostoma semistriatum Pfr. in Zeitschr. f. Mal. 1847. p. 104.
Cyclotus semistriatus Gray Catal. Cycloph. p. 10. N. 26.
— — *Pfr.* Consp. N. 10.

Habitat in India orientali, circa Poonah et Neemuch; in insula Ceylon?

11. C. prominulus Férussac. 37

T. late umbilicata, depressa, subdiscoidea, tenuis, ruguloso-striata, opaca, alba; spira breviter elevata, mucronulata; anfr. 4—5 convexi, rapide accrescentes, ultimus depressus, antice dilatatus, plerumque solutus; apertura vix obliqua, subcircularis; perist. rectum, acutum, continuum vel breviter interruptum, marginibus callo nitido junctis. — Operc. arctissime spiratum, marginibus acutis subelevatis. — Diam. maj. 15, min. 12, alt. 8 mill. Ap. 6 mill. longa. (Coll. Nr. 8.)

Cyclostoma prominula Fér. Mus.
— — *Orb.* 1837. Voy Amér. p. 362. *)
— *planorbulum Sow.* Conch. Man. ed. II. f. 530?
— *Brasiliense Sow.* Spec. Conch. Pt. II. Cyclost. f. 8.
— — *Sow.* in Zool. of Beech. voy. p. 147. t. 38. f. 32. **)
— — *Sow.* in Proc. Zool. Soc. 1843. p. 29.
— — *Sow.* Thes. N. 4. p. 92. t. 23. f. 7.
— — *Chemn.* ed. II. Cycl. N. 108. p. 108. t. 12. f. 13—15.
Aperostoma brasiliense Pfr. in Zeitschr. f. Mal. 1847. p. 104.
Cyclotus brasiliensis Gray Catal. Cycloph. p. 6. N. 4.
— — *Pfr.* Consp. N. 11.

Habitat in Brasilia, prope Rio Janeiro (Sow.) et in provincia Minarum (Orb.).

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*) T. orbiculato-depressa, transversim costata, albida; spira conica, apice obtuso; anfract. 4 convexis, sutura profunda; apertura rotunda. — Alt. 8 mill., diam. 13 mill. (Orb. l. c.)

**) T. late umbilicata, orbiculari, depressiuscula, tenui, alba, opaca; anfr. 4—5 transverse striatis, striis acutis, confertis; sutura profunda; apertura circulari; peristomate tenui, acuto; operculo crasso, testaceo, duplice, intus glabro, extus subtilissime spirato. (Sow. l. c.)

38 **12. C. suturalis Sowerby.**

T. late umbilicata, discoidea, tenuiuscula, striatula, olivaceo-cornea; spira vix emersa, mucronulata; sutura profunda, canaliculata, marginata; anfr. 4 convexiusculi, juxta suturam linea distincta, impressa notati, ultimus subdepressus, antice breviter descendens, subsolutus; apertura vix obliqua, circularis; perist. continuum, superne subangulatum, simplex, rectum, margine dextro superne antrorsum subarcuato. — Operc. testaceum, extus valde concavum, arctispirum, margine anfractuum (circa 6) elevato, membrana fimbriata munito. — Diam. maj. 13, min. $10^{1}/_{2}$, alt. 5 mill. Ap. diam. 5 mill. (Mus. Cuming. et Coll. Nr. 9.)

Cyclostoma suturale Sow. in Proc. Zool. Soc. 1843. p. 29. *)
— — *Sow.* Thes. N. 1. p. 91. t. 23. f. 1. 2.
— — *Chemn.* ed. II. Cycl. N. 109. p. 109. t 12. f. 10 – 12.
Aperostoma suturale Pfr. in Zeitschr. f. Mal. 1847. p. 104.
Cyclotus suturalis Gray Catal. Cycloph. p. 7. N. 8.
— — *Pfr.* Consp. N. 12.

Habitat in Demerara (Bainbridge), in insula Jamaica (Adams).

39 **13. C. distinctus Sowerby.**

T. late umbilicata, discoidea, tenuis, striis confertis excentricis et liris subconfertis, alternis minoribus, spiralibus munita, albida; spira plana, apice vix prominula; sutura profunde incisa, canaliculata; anfr. $3^{1}/_{2}$ vix convexiusculi, ultimus depressus, latior quam altus, antice solutus; apertura subverticalis, subcircularis; perist. simplex, continuum, rectum, acutum, margine sinistro expansiusculo. — Operc. testaceum, planum, arctispirum, membrana floccosa vestitum. — Diam. maj. 14, min. $10^{1}/_{2}$, alt. $5^{1}/_{2}$ mill. Ap. oblique $5^{1}/_{2}$ mill. longa. (Coll. Nr. 10.)

Cyclostoma distinctum Sow. Thes. N. 47. p. 106. t 24. f. 38. **)
— — *Chemn.* ed. II. N. 155. p 146. t. 20. f. 7—9.
— *orbella* (Lam.) *Petit* Journ. Conch. 1850. I. p. 48.

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*) T. orbiculato-depressa, tenui; epidermide olivacea induta; anfr. 3—4 rotundatis, transversim tenuissime striatis; apertura circulari, superne emarginatione obsoleta; peritremate tenui, margine acutiusculo; umbilico patulo; operculo concinne spirali. (Sow. l c.)

**) T. orbiculari, depressa, fere planorbula, tenui, alba; spira depressa; anfr. 4 distinctis, rotundatis, spiraliter sulcatis; apertura circulari; peritremate tenuissimo, acuto. (Sow. l. c.)

Cyclophorus? distinctus Pfr. in Zeitschr. f. Mal. 1847. p. 108.
— — *Gray* Catal. Cycloph. p. 22. N. 33.
Cyclotus distinctus Pfr. Consp. N. 13.

Habitat „Bay de Montija“ Columbiae occidentalis (Cuming), Haiti (Sallé).

14. C. dubiosus Adams. † 40

„Differt a *C. suturali* carina juxta suturam omnino deficiente, cujus loco depressio partis superioris anfractuum observatur. — Operculum ignotum.“ (Ad.)

Cyclostoma dubiosum Adams Contrib. to Conchol. N. 9. p. 157.
Cyclotus? dubiosus Pfr. Consp. N. 14.

Habitat in insula Jamaica.

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15. C. Jamaicensis (Turbo) Chemnitz. 41

T. umbilicata, depresso-turbinata, solida, striata, prope suturam ruditer plicato-rugosa, sub epidermide castanea, saepe fasciata carnea; spira brevis, turbinata, acutiuscula; anfr. 5 convexi, ultimus ventrosus, circa umbilicum latum, perspectivum costa prominente, obtusa, utrinque compressa munitus; apertura obliqua, ovato-rotundata, intus purpurascenti-aurantiaca, nitida; perist. rectum, obtusum, marginibus angulo saepe superstructo, duplicato junctis, supero repando, columellari valde arcuato. — Operc. immersum, 6--7-spirum, anfractibus concavis, margine suberecto, leviter reflexo. — Diam. maj. 26, min. 22, alt. 18 mill. Diam. verticalis apert. 14 mill. (Coll. Nr. 11.)

Turbo Jamaicensis Chemn. Conch. XI p. 277. t. 209. f. 2057. 58! *)
— — *Wood* Suppl. t. 6. f. 3.
Cyclostoma Jamaicense Gray in Wood suppl. p. 36.
— — *Sow.* Thes. N. 15. p. 96. t. 23. f. 12. 13.
— — *Chemn.* ed. II. Cycl. N. 7. p. 16. t. 2. f. 15—17. (excluso operc.) t. 44. f. 1.
— — *Adams* Contrib. to Conchol. N: 8. p. 143.

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*) T. umbilicata, spadicea, anfractibus supra penes suturam leviter plicatis seu corrugatis, basi subplicata; umbilico profundo, infundibuliformi, marginato; apertura rotunda; operculo orbiculari, testaceo, striis concentricis circinato et notato. (Chemn. l. c.)

Cyclostoma corrugatum Menke Catal. Malsb. p. 10. (Ex synon.)
Aperostoma Jamaicense Pfr. in Zeitschr. f. Mal. 1847. p. 104.
Poteria Gray Syn. Brit. Mus. 1842. p. 91. Proc. Zool. Soc. 1847. p. 181.
Cyclotus lineatus Gray Catal. Cycloph. p. 12. N. 27.
— *Jamaicensis Pfr.* Consp. N. 15.
Lister hist. t. 55. f. 51? (Cochlea umbilicata, subrufa, plurimis exiguis fasciis exornata. — Jamaica.)
Sloane Nat. hist. Jam. II. t. 240. f. 8. 9?

β. Testa undique leviter malleato-rugosa, costa umbilicali extus non compressa:
Cyclostoma Jamaicense var. Chemn. l. c. t. 44. f. 2—4

γ? Minor, testa albido-rosea, fasciis 2 latis castaneis ornata, margine supero peristomatis distinctius repando. — Diam. maj. 21, min. 17, alt. 12 mill. — Operc. ignotum. (Mus. Cuming)

Habitat in insula Jamaica.

42 16. **C. corrugatus Sowerby.**

T. umbilicata, subturbinato-depressa, solida, undique subregulariter angulato-rugosa, sub epidermide fulvida, decidua alba; spira brevis, rubicunda, acutiuscula; anfr. 5 convexi, ultimus teres, basi subplanatus, circa umbilicum mediocrem, pervium nodoso-subangulatus; apertura parum obliqua, subrotundata, superne subangulata, intus albida; perist. rectum, obtusum, marginibus angulo saepe duplicato, superstructo junctis, dextro subrepando, sinistro anfractui penultimo breviter adnato. — Operc. extus concavum, anfr. 9 arctissime volutis, margine in laminam spiralem, latam, erectam, expansiusculam dilatato. — Diam. maj. 22, min. 19, alt. 14 mill. Ap. 12 mill. longa. (Coll. Nr. 12.)

Cyclostoma corrugatum Sow. in Proc. Zool. Soc. 1843. p. 30.*)
— — *Sow.* Thes. N. 14. p. 95. t. 23. f. 10. 11.
— — *Chemn.* ed. II Cycl. N. 8. p. 17. t. 2. f. 13. 14. t. 44. f. 5. 6.
— — *Adams* Contrib. to Conchol. N. 8. p. 143.
Aperostoma corrugatum Pfr. in Zeitschr. f. Malak. 1847. p. 104.

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*) T. orbiculato-subdepressa, crassiuscula, albida, apice rufescente; epidermide tenui, fusca induta; spira subprominula, acuminatiuscula; anfr. 5 rotundatis, transversim striatis et corrugatis; sutura distincta; apertura circulari, subeffusa, superne angulata et in canalem inconspicuum desinente; peritremate tenuiusculo, margine acutiusculo, latere umbilicali incrassato; umbilico magno, margine crenulato, intus transversim striato; operc. testaceo, extus lamina elevata, convoluta, intus corneo, polito. (Sow. l. c.)

Cyclotus jamaicensis Gray Catal. Cycloph. p. 11. Nr. 28. (ex synon.)
— *corrugatus Pfr.* Consp. N. 16.

Habitat in insula Jamaica.

17. **C. jugosus Adams.** 43

T. umbilicata, depressa, solida, confertim striata, sub epidermide fulvo-fusca alba; spira brevissime elevata, mucronulo rubicundo terminata; sutura levis; anfr. 5 depresso-convexi, rapide accrescentes, ultimus antice dilatatus, superne irregulariter et ruditer nodoso-corrugatus, basi oblique corrugato-sulcatus, circa umbilicum magnum, infundibuliformem obsolete carinatus; apertura perobliqua, transverse ovalis, intus alba; perist. continuum, breviter adnatum, marginibus superne angulo interdum superstructo junctis, dextro repando, obtuso, columellari leviter arcuato, incrassato. — Operc. concavum, 8-spiratum, marginibus anfractuum angustorum in laminam altam, incurvatam erectis. — Diam. maj. 24, min. 18, alt. 12 mill. Ap. c. perist. oblique 12½ mill. longa. (Coll. Nr. 13.)

Cyclostoma jugosum Adams Contrib. to Conchol. N. 8. p. 143.
— — *Chemn.* ed. II. Cycl. N. 358. t. 44 f. 10—13
Cyclotus jugosus Pfr. Consp. N. 17.

Habitat in insula Jamaica.

18. **C. pallescens Adams.** † 44

T. umbilicata, depressa, subtiliter et regulariter striata, sub epidermide fusca alba; spira depressa, rufula; sutura modice impressa; anfr. fere 5, ultimus irregulariter striatus, superne planatus, ruditer et irregulariter rugatus, basi sublaevigatus; carina umbilicalis nulla; apertura orbicularis, superne subeffusa et acuminata; labrum superne vix sinuatum, latere dextro modice productum; umbilici diameter circa ⅔ aperturae. — Operc. 6—7-spiratum, anfr. concavis, lamella spirali erecta, reflexa. — Diverg. media 145°; alt. 0,67, lat. max. 1,15, min. 0,91″. (Ad.)

Cyclostoma pallescens Adams Contrib. to Conch. N. 8. p. 143.
Cyclotus pallescens Pfr. Consp. N. 18.

Habitat in insula Jamaica.

19 **C. varians Adams.** 45

T. umbilicata, depressa, solida, sub epidermide castaneo-rufa pallida; spira vix elevata, vertice rubro mucronulato;

sutura impressa; anfr. 4½ depresso-convexi, 2 ultimi superne valide et oblique angulato-rugosi, ultimus ad suturam depressus, basi minutius oblique sulcatus, circa umbilicum latum, infundibuliformem compresso-angulatus; apertura parum obliqua, subcircularis, intus rubra; perist. continuum, brevissime adnatum, marginibus angulo simplice junctis, dextro leviter arcuato, acuto, sinistro perarcuato, incrassato. — Operc. vix concavum, marginibus anfractuum (circa 8) angustissimorum elevato-expansis, fere planum continuum formantibus. — Diam. maj. 24, min. 20, alt. 11 mill. Ap. 12 mill. longa. (Coll. Nr. 14.)

Cyclostoma varians Adams Contrib. to Conch. N. 8. p. 143.
— — *Chemn.* ed. II. Cycl. N. 357. t. 44. f. 7—9.
Cyclotus varians Pfr. Consp. N. 19.

Habitat in insula Jamaica.

46 20. **C. seminudus Adams.** †

T. umbilicata, turbinata, subtiliter striata, rubenti-albida, epidermide brunnea, plerumque fasciatim interrupta induta; spira bene elevata; anfr. fere 5, penultimus foveato-rugosus, ultimus superne subdepressus, irregulariter rugatus, basi juxta carinam umbilicalem distinctam foveatus, caeterum laevigatus; apertura orbicularis, superne effusa et acuminata; labrum crassum, superne subsinuatum, latere dextro productum; umbilici diameter circa ¾ aperturae. — Operc. concavum, lamella spirali vix elevata, sed incrassata et latere externo appressa. — Diverg. media 120°; alt. 0,65, lat. max. 1, min. 0,79″. (Ad.)

Cyclostoma seminudum Adams Contrib. to Conch. N. 8. p. 143.
Cyclotus seminudus Pfr. Consp. N. 20.

Habitat in insula Jamaica.

47 21. **C. subrugosus Sowerby.**

T. late umbilicata, depressa, solida, oblique malleato-rugosula, alba; spira vix elevata, papillata; anfr. 4½ convexiusculi, ultimus peripheria obsolete angulatus, antice solutus, deflexus, dorso angulatus, circa umbilicum obtuse carinatus; apertura obliqua, circularis; perist. rectum, continuum, subincrassatum. — Operc.? — Diam. maj. 16, min. 12½, alt. 7½ mill. Ap. 5 mill. longa. (Mus. Cuming.)

Cyclostoma subrugosum Sow. Thes. Suppl. N. 186. p. 161*. t. 31 B. f 308. 309. *)
— — *Chemn.* ed. II Cycl. N. 334. t. 42. f. 19. 20.
Cyclotus subrugosus Pfr. Consp. N. 21.

Habitat in insula Jamaica.

22. **C. Duffianus Adams.** † 48

T. magna, discoidea, rubella albaque; anfr. 4½ cylindracei; umbilicus latus, profundus; margo simplex. — Operc.? — Diverg. 150°; lat. max. 1,9, lat. min. 1,45, alt. 0,87″. (Ad.)

Cyclostoma Duffianum Adams in Proc. Bost. Soc. 1845. p. 11.
Aperostoma Duffianum Pfr. in Zeitschr. f. Mal. 1847. p. 104.
Cyclotus? Duffianus Gray Catal. Cycloph. p. 7. N. 5.
— — *Pfr.* Consp. N 22.

Habitat in insula Jamaica.

23. **C. crassus Adams.** 49

T. umbilicata, conoideo-depressa, solida, confertim striata, virenti-fusca vel saturate brunnea; spira breviter conoidea, apice lutescens, acutiuscula; sutura mediocris; anfr. 5 convexi, ultimus obsolete spiraliter striatus, superne leviter corrugatus, basi convexiusculus, circa umbilicum mediocrem vix vel non compressus; apertura obliqua, angulato-ovalis, intus livida, nitida; perist. continuum, breviter adnatum, marginibus angulo subacuto junctis, dextro recto, simplice, sinistro incrassato, subreflexo. — Operc. immersum, 7-spirum, lamina spirali elevata, brevissime reflexa. — Diam. maj. 18, min. 15, alt. 10 mill. Ap. 10 mill. longa, 8 lata. (Coll. Nr. 15.)

Cyclostoma crassum Adams Contrib. to Conch. N. 8. p. 143.
— — *Chemn.* ed. II. Cycl. N. 359. t. 44. f. 14–16.
Cyclotus crassus Pfr. Consp. N. 23.

Habitat Manchester insulae Jamaicae.

24. **C. perpallidus Adams.** † 50

T. umbilicata, subturbinata, subtiliter rugoso-striata, albida, epidermide pallide virenti-fusca induta; spira modice

*) T. suborbiculari, depressa, rugulosa, alba; spira depressa, obtusa, apice prominulo; anfr. 4 rotundatis, postice depressiusculis; sutura distincta, linea obsoleta subsuturali notata; apertura fere circulari; peritremate postice subincrassato, intus prope umbilicum, tenui, ab ultimo anfractu disjuncto; umbilico magno, antice carinato. (Sow. l. c.)

elevata; sutura bene impressa; anfr. 5, ultimus fere undique minute rugatus, subtus planulatus, peripheriam subangulatam reddens; apertura suborbicularis, effusa, acuminata, superne valde producta; labrum crassum; umbilici diameter $^1/_2$ aperturae. — Operc.? — Diverg. media 130°; alt. 0,45, lat. max. 0,7, min. 0,58″. (Ad.)

Cyclostoma perpallidum Adams Contrib. to Conch. N. 9. p. 157. Conf. N. 8. p. 148.
Cyclotus perpallidus Pfr. Consp. N. 24.

Habitat in insula Jamaica.

Obs. Nonne *C. asperulo* nimis affinis?

51 25. **C. Fortunei Pfr.**

T. umbilicata, turbinato-depressa, solidula, subtiliter striatula, fulva, castaneo minute marmorata et infra medium unifasciata; spira brevissime turbinata, vertice subtili; sutura simplex; anfr. $4^1/_2$ convexi, ultimus teres, non descendens; umbilicus conicus, profundus, $^1/_4$ diametri subaequans; apertura fere verticalis, subcircularis, superne leviter angulata; perist. simplex, rectum, anfractui penultimo breviter adnatum. — Operculum normale, margine anfractuum filoso-elevato. — Diam. maj. $12^1/_2$, min. 10, alt. 7 mill. Ap. $6^1/_3$ mill. longa. (Mus. Cuming.)

Cyclostoma Fortunei (Cyclotus) *Pfr.* in Proc. Zool. Soc. 1852.
— — *Chemn.* ed. II. Cycl. N. 404. t. 49. f. 3—5.

Habitat Shanghi Chinae (Fortune).

§. 2.

52 26. **C.? volvuloides Sowerby.**

T. umbilicata, turbinato-depressa, solida, superne et basi confertim spiraliter lirata, nitida, carneo et fusco-violaceo variegata; spira turbinata, obtusiuscula; anfr. 5 perconvexi, ultimus latus, peripheria rotundatus, sublaevigatus; umbilicus latus, profundus; apertura vix obliqua, subcircularis, intus fulvida; perist. simplex, breviter interruptum, album, margine supero repando, expanso, dextro brevi, columellari perdilatato, patente. — Operc.? — Diam. maj. 25, min. 19, alt. 14 mill. (Mus. Cuming.)

Cyclostoma volvuloides Sow. Thes. Suppl. N. 187. p. 162*. t. 31 B. f. 313. 314. *)
— — *Chemn.* ed. II. N. 231. t. 33. f. 8. 9.
Cyclotus? volvuloides Pfr. Consp. N. 25.

Habitat . . .?

27. **C. subdiscoideus Sowerby.** 53

T. umbilicata, depressa, solidula, undique confertim spiraliter lirata, opaca, pallide carnea, superne maculis fusculis substrigatim picta; spira brevissime turbinata, vertice subpapillari; anfr. $4^1/_2$ – 5 convexi, ultimus subteres, antice descendens; umbilicus latus; apertura fere diagonalis, circularis, intus carnea; perist. simplex, marginibus fere contiguis, supero repando, expansiusculo, columellari breviter reflexo. — Operc. immersum, subplanum, arctispirum, anfractuum margine acute elevato. — Diam. maj. 17, min. $13^1/_2$, alt. 8 mill. Ap. 8 mill. longa. (Mus. Cuming. et Brit.)

Cyclostoma subdiscoideum Sow. Thes. Suppl. N. 184. p. 161*. t. 31 B. f. 304. 305. **)
— — *Chemn.* ed. II. Cycl. N. 325. t. 41. f. 33. 34.
— *rusticum Pfr.* in Proc. Zool. Soc. 1851. Jul.
Cyclotus Pfeifferi Gray Catal. Cycloph. p. 9. N. 20. (absque descriptione.)
— *subdiscoideus Pfr.* Consp. N. 26.

Habitat . . .?

28. **C. aratus Benson.** † 54

T. aperte umbilicata, orbiculato-depressa, ferrugineo-albida, unicolor vel ferrugineo marmorata et fasciata, spiraliter sulcata, sulcis radiato-striatis; spira elevatiuscula, apice acutiuscula; anfr. $4^1/_2$ convexi, ultimus cylindraceus, antice descendens, dilatatus; apertura ovato-circularis, valde obliqua, margine parietali angulato, calloso, superiore expanso, arcuato, obsolete crenulato, inferiore breviter reflexo; umbilicus infundibulifor-

*) T. subgloboso-conica, pallida, pallide fuscescente zonatâ et sphacelata; spira subacuminata, apice obtusiusculo; anfr. 5 rotundatis, raptim majoribus, postice spiraliter liratis, antice laevigatis; sutura distincta; apertura fere circulari, superne subcanalifera, peritremate albo, subincrassato, reflexo, prope umbilicum tenui, antice extenso; gula subaurantiaca; umbilico magno, intus spiraliter striato. (Sow. l. c.)

**) T. suborbiculari, subdiscoidea, spiraliter lirata, albicante, zona interrupta, pallide fusca, ornata; spira depresso-conica, obtusa; anfr. 4 rotundatis; sutura subcanaliculata; apertura circulari; peritremate tenui, albido, paululum reflexo; umbilico maximo, anfr. 4 distinctis. (Sow. l. c.)

mis, omnes anfractus exhibens. — Operc. calcareum, multispiratum, intus membrana indutum, concaviusculum, extus carina elevata spirali subhorizontali munitum. — Diam. maj. 18, min. 15, axis $9^{1}/_{2}$ mill. (B.)

Cyclostoma aratum Bens. in Ann. and Mag. 1851. New ser. VIII.
Cyclotus aratus Pfr. Consp. N. 27.

Habitat in Indiae orientalis provincia „Northern Circars" (Jerdon).

55 29. **C. orbellus Lamarck.**

T. late umbilicata, subdiscoidea, tenuis, liris spiralibus acutis, superne distantibus, basi confertioribus, obsoletioribus sculpta, diaphana, pallide fulvida vel cinerea; spira plana, vertice prominente, papillato; sutura late canaliculata; anfr. $4^{1}/_{2}$ convexiusculi, ultimus teres, antice deflexus; apertura perobliqua, subcircularis; perist. simplex, acutum, marginibus approximatis, dextro expansiusculo, crenulato, basali reflexo. — Operc.? — Diam. maj. 14, min. 11, alt. $5^{1}/_{2}$ mill. Ap. $5^{1}/_{2}$ mill. longa. (Coll. Nr. 16.)

Cyclostoma orbella Lam. Hist. VI. p. 148. N. 23. Ed: Desh. VIII. p. 360. N. 22. *)
— — *Deless.* Recueil t. 29. f. 13.
— — *Sow.* Thes. N. 7. p. 93. t. 23. f. 6*. 6**. **)
— — *Chenu* Illustr. conch. Livr. 73. t. 1. f. 13.
— — *Chemn.* ed. II. Cycl. N. 154. p. 145. t. 20. f. 4—6.
— *variabile Féruss.* Mus. (teste Mus. Cuming.)
— *Lamarkii Petit* in Journ. Conch. I. p. 41.
Cyclophorus? orbellus Pfr. in Zeitschr. f. Malak. 1847. p. 108.
Cyclotus? orbellus Gray Catal. Cycloph. p. 9. N. 21.
— — *Pfr.* Consp. N. 28.

β? Spira paulo elatiore, liris basalibus distinctioribus; operculo testaceo, albo, arctispiro, plano.
Cyclostoma orbella var.? Chemn. ed. II. Cycl. t. 41. f. 26. 27.

Habitat in Madagascar (*C. variabile Fér.*); var. *β*? in insula Guadeloupe (teste Mus. Cuming.).

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*) T. orbiculari, superne planulata, subtus profunde umbilicata, scabriuscula. cinerea; anfractibus longitudinaliter striatis: striis prominentibus; spirae apice submammillari. — Diam. 6'''. (Lam. l. c.)

**) T. suborbiculari, subdiscoidea, tenui, apice obtuso, paululum levato, submamillari; anfr. 4, superne spiraliter striatis, striis prominentibus, infra leviter striatis; umbilico patulo; apertura circulari, peritremate tenui, subreflexo. (Sow. l. c.)

30. C.? diatretus Gould. † 56

T. planorboidea, albido-cornea, supra costis distantibus, ad intervallos cincinne clathratis, angulata, late umbilicata; spira planulata, anfr. 4 cylindraceis, rapide crescentibus, prope suturam decliventibus; apertura circularis; perist. simplex. — Lat. $^2/_5$, alt. $^1/_5$ poll. (G.)

Cyclostoma diatretum Gould in Proc. Bost. Soc 1847. p. 205 et Exped. shells p. 38. Ed. 1851. p. 105. f. 124.

Cyclotus? diatretus Pfr. Consp. N. 29.

Habitat Sandalwood-Bay, Feejee Islands.

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31. C. conoideus Pfr. 57

T. umbilicata, globoso-turbinata, tenuis, pallide fusco et rufo marmorata et fasciata, lineis elevatis spiralibus et interdum carina 1 vel 2 distinctioribus cincta; spira conica, acutiuscula; sutura profunda, subcrenata, vel rufo-articulata; anfr. $4^1/_2$ convexi, ultimus circa umbilicum mediocrem, subinfundibuliformem distinctius sulcatus; apertura subcircularis, intus concolor, nitida; perist. acutum, tenue, expansiusculum, marginibus subcontiguis, callo brevi angulatim junctis. — Operc. testaceum, immersum, extus concaviusculum, anfr. 5, linea subelevata discretis. — Diam. maj. $10^1/_2$, min. 9, alt. 8 mill. Ap. 5 mill. longa. (Coll. Nr. 17.)

Cyclostoma spurcum Sow. in Proc. Zool. Soc. 1843. p. 60. *). Nec Gratel
— — *Sow.* Thes. N. 26. p. 99. t. 24. f. 75. 76.
— *conoideum Pfr.* in Zeitschr. f. Malak. 1846. p. 44.
— — *Chemn.* ed. II. Cycl. N. 99. p. 101. t. 13. f. 19—21.
— *varium Barcl.* mss.?

Tropidophora conoidea Pfr. in Zeitschr. f. Malak. 1847. p. 107.

Cyclotus conoideus Gray Catal. Cycloph. p. 10. N. 25.
— — *Pfr.* Consp. N. 30.

Habitat in insulis Seychellis (Sowerby); in America meridionali (Fitzroy, Gray), Isle de France (D. Barclay: *C. varium* in Mus. Cuming.).

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*) T. suborbiculari, rufescenti-fusca, spira prominula; anfr. 4 rotundatis, albicante-subvariegatis, spiraliter striatis et subcarinatis, sutura distincta, subcrenulata; apertura circulari, peritremate albo, tenui, subreflexo; umbilico parvo; operculo crassiusculo, anfractibus quinis. (Sow. l. c.)

58 32. **C. Mexicanus Menke.**

T. umbilicata, depressa, suborbiculata, solidula, confertim striata, opaca, carneo-albida; spira brevis, mucronulata; anfr. 5½ rotundati, sensim accrescentes, ultimus cylindricus, penultimum vix tangens; umbilicus latus, perspectivus; apertura subverticalis, subcircularis, intus fulvescens; perist. continuum, breviter incrassato-expansum, margine sinistro omnino libero, ad umbilicum profunde emarginato, infra emarginationem dilatato, expanso. — Operc.? — Diam. maj. 24, min. 19, alt. 12 mill. Ap. intus 8 mill. diam. (Coll. Nr. 18.)

Cyclostoma mexicanum Menke Synops. ed. II. p. 133. *)
— — *Voigt* in Cuv. Thierr. III. p. 78.
— — *Philippi* Abbild. I. 5. p. 104. t. 1. f. 4.
— — *Sow.* Thes. N. 64. p. 112. t. 25. f. 93. **)
— — *Chemn.* ed. II. Cycl. N. 49. p. 56. t. 7. f. 21. 22.
Aperostoma mexicanum Pfr. in Zeitschr. f. Malak. 1847. p. 104.
Cyclotus mexicanus Gray Catal. Cycloph. p. 9. N. 19.
— — *Pfr.* Consp. N. 31.

Habitat prope Papantla reipublicae Mexicanae. (Schiede.)

59 33. **C. pusillus Sowerby.**

T. umbilicata, suborbicularis, tenuis, striatula, sublaevigata, diaphana, pallide viridula; spira brevis, medio elata, mucronulata; anfr. 4½ convexi, ultimus antice deflexus, fere solutus, basi distinctius striatus; umbilicus latus, perspectivus; apertura parum obliqua, subcircularis, intus nitide albida; perist. continuum, subsimplex, expansiusculum, ad anfractum penultimum subemarginatum, margine dextro antrorsum arcuato. — Operc. arctispirum, extus concavum, intus nitidum, margine canaliculatum. — Diam. maj. 11, min. 9, alt. 6 mill. Ap. 5 mill. longa. (Coll. Nr. 19.)

Cyclostoma pusillum Sow. in Proc. Zool. Soc. 1843. p. 59. ***)
— — *Sow.* Thes. N. 10. p. 94 t. 23. f. 5. 5*.

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*) T. orbiculato-convexa, late et profunde umbilicata, longitudinaliter striata, exalbida; spira mucronata; peristomatis margine obtuso, reflexo. — Alt. 4, lat. 9'''. (Menke l. c.)

**) T. orbiculato-convexa, albida, opaca, spira submucronata, anfr. 5 rotundatis, transversim striatis; sutura profundiuscula; apertura circulari, intus flavida; peritremate obtuso, reflexo, latere anfractus ultimi emarginatione obtusa; umbilico lato et profundo. (Sow. l. c.)

***) T. orbiculari, subdiscoidea; apice spirae subprominulo; anfr. 4 rotundatis, lineis incrementi solum striatis; sutura profunda; apertura circulari, peritremate tenuiusculo, subreflexo, postice prope anfractum penultimum subemarginato; umbilico patulo. (Sow. l. c.)

Cyclostoma pusillum Chemn. ed. II. Cycl. N. 53. p. 59. t. 7. f. 16. 17.
Apcrostoma pusillum Pfr. in Zeitschr. f. Malak. 1847. p. 104.
Cyclotus pusillus Gray Catal. Cycloph. p. 9. N. 18.
— — *Pfr.* Consp. N. 33.

Habitat in insulis Philippinis Luzon et Negros (H. Cuming).

34. **C. scalaris Pfr.** 60

T. umbilicata, conoidea, solidula, oblique striatula, nitidula, corneo-lutea; spira elata, scalaris, apice acuta; sutura profunda; anfr. 4½ perconvexi, ultimus teres, antice subsolutus; umbilicus angustus, pervius; apertura obliqua, circularis, intus margaritacea; perist. simplex, continuum, undique vix expansiusculum. — Operc.? — Diam. maj. 9, min. 7, alt. 6½ mill. Ap. 3⅔ mill. longa. (Mus. Cuming.)

Cyclostoma scalare Pfr in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 328. t. 41. f. 38. 39.
Cyclotus scalaris Pfr. Consp. N. 34. p. 50.

Habitat in insulis Philippinis.

§. 3.

35. **C. hebraicus (Valvata) Lesson.** 61

T. umbilicata, depressiuscula, suborbicularis, striata, sublaevigata, fuscescenti-albida, superne saepe brunneo-marmorata; spira brevis, obtusiuscula; anfr. 4½—5 convexi, ultimus infra peripheriam fascia castanea cinctus, antice fere solutus; umbilicus latus, perspectivus; apertura subcircularis; perist. continuum, duplex: internum breve, rectum, externum subexpansum, superne angulatum, inflexo-dilatatum. – Operc. planum, extus concaviusculum, arctispirum. — Diam. maj. 22, min. 18, alt. 12 mill. Ap. diam. 8 mill. (Coll. Nr. 20.)

Valvata hebraica Less. Voy. de la Coquille p. 347. t. 13. f. 8.*)
Cyclostoma papua Quoy et *Gaim.* Voy. Astrol. II. p. 185. t. 12. f. 23—26.**)
— — *Desh.* in Lam. hist. VIII. p. 369. N. 35.
— — *Hombr.* et *Jacq.* Voy. Pol Sud. Moll. t. 12. f. 16—19.

*) T. discoidea, anfractibus convexis, subdisjunctis; spira conica, parum elevata, anfractu ultimo antice dilatato; apertura circulari; peristomate simplice; umbilico magno. (Less. l. c.)

**) T. orbiculari, planulata, subtus profunde umbilicata, laevi, albida, flammis rubro-castaneis ornata; apertura integra, rotunda, intus coerulescenti-alba, vix reflexa; anfr. 4. — Diam. 8, alt. 5'''. (Quoy l. c.)

Cyclostoma distomella Sow. Thes. N. 68. p. 114. t. 25. f. 94.*)
— — *Chemn.* ed. II. Cycl. N. 91. p. 95. t. 12. f. 4. 5. t. 28. f. 14. 15.
Aperostoma distomella et *hebraicum Pfr.* in Zeitschr. f. Mal. 1847. p. 104.
Cyclophorus? papua Pfr. ibid. p. 108.
Cyclotus distomellus et *hebraicus Gray* Catal. Cycloph. p. 7 et 8.
— *hebraicus Pfr.* Consp. N. 35.

Habitat in Nova Guinea.

62 36. **C.? discoideus Sowerby.**

T. late umbilicata, discoidea, solidula, striatula, sub epidermide straminea alba; spira depressissima, apice vix prominulo; sutura profunda; anfr. 4½ teretes, ultimus antice descendens; apertura circularis, intus albida; perist. duplex: internum breve, rectum, appressum, externum crassiusculum, latere dextro late expanso. — Operc.? — Diam. maj. 20, min. 15, alt. 7 mill. Ap. c. perist. 7½ mill. longa, 8 lata. (Mus. Cuming.)

Cyclostoma discoideum Sow. Thes. N. 60. p. 111. t. 25. f. 87. 88.**)
— — *Chemn.* ed. II. Cycl. N. 153. p. 144. t. 20. f. 1—3.
— — *Mouss.* Jav. Moll. p. 50. t. 20. f. 10.
Aperostoma discoideum Pfr. in Zeitschr. f. Mal. 1847. p. 104.
Cyclotus discoideus Gray Catal. Cycloph. p. 8. N. 11.
— — *Pfr.* Consp. N. 36.

Habitat Demerara (Sowerby); Malang Javae? (Mousson.)

63 37. **C.? opalinus Mousson.** †

T. orbicularis, supra planulata, infra latissime umbilicata seu concava, diaphana, laevigata, nitidissima, alba, subopalina; anfr. 5 teretes, plane involuti, ultimus ²/₇ diametri aequans; spira vix prominula; sutura profunda; apertura integra, soluta,

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*) T. suborbiculari, depressiuscula, laevi, albicante, fascia fusca infra mediam anfractus ultimi; spira subprominula, nigricante, anfr. 5 rotundatis, laevigatis, sutura profunde impressa; apertura circulari, peritremate duplici, interno simplici, continuo, externo tenui, extus sub-variciformi, superne seu postice interrupto. (Sow. l. c.)

**) T. discoidea, spira depressa, plana, pallida, epidermide olivacea; anfr. 4—5 rotundatis, gradatim majoribus, laevibus; sutura distincta, profundiuscula; apertura circulari, peritremate superne et interne tenui, simplici, externe reflexo, duplici; umbilico patulo, anfractibus intus conspicuis. (Sow. l. c.)

perfecte circularis; perist. solutum, duplicatum, lamina externa expansa, subreflexa. — Operc.? — Alt. 9,3, diam. maj. 21, 2, min. 17,2 mill. — Rat. anfr. = 1:2. — Rat. ap. = 1:1. (M.)

Cyclostoma opalinum Mouss. Jav. Moll. p. 51. t. 5. f. 12.
Cyclotus opalinus Pfr. Consp. N. 37.

Habitat in sylvis prope Malang Javae (Zollinger).

Obs. „Proxime affine *Cycl. discoideo Sow.* et *planorbulo Sow.*"

38. **C. mucronatus Sowerby.** 64

T. umbilicata, orbicularis, tenuiuscula, striato-scabriuscula, pallide fuscescens; spira brevissima, mucronata; anfr. $4^1/_2$ rapide accrescentes, convexi, ultimus antice subdeflexus, fere solutus; umbilicus latus, perspectivus; apertura obliqua, circularis, intus fulvescenti-albida; perist. continuum, duplex: internum breve, rectum, externum subexpansum, superne sinuosum, intus concentrice striatum. — Operc. terminale, crassum, arctispirum, extus concavum. — Diam. maj. 15, min. 13, alt. 7 mill. Ap. intus 6 mill. diam. (Coll. Nr. 21.)

Cyclostoma mucronatum Sow. in Proc. Zool. Soc. 1843. p. 63. *)
— — *Sow.* Thes. N. 66. p. 113. t. 25. f. 91.
— — *Chemn.* ed. II. Cycl. N. 52. p. 58. t. 7. f. 11—13.
Aperostoma mucronatum Pfr. in Zeitschr. f. Mal. 1847. p. 104.
Cyclotus mucronatus Gray Catal. Cycloph. p. 8. N. 12.
— — *Pfr.* Consp. N. 38.

Habitat Calanang insulae Luzon (H. Cuming).

39. **C. substriatus Sowerby.** 65

T. umbilicata, orbicularis, mucronulata, solidiuscula, ad suturam distincte radiatim striata, fuscescens; spira planiuscula, medio mucronatim elevata; anfr. $4^1/_2$ convexi, ultimus antice subdeflexus; umbilicus latus, perspectivus; apertura obliqua, circularis, intus fulvida; perist. subduplicatum: internum adnatum, externum breviter incrassato-expansum, concentrice striatum, ad anfractum penultimum extus subangulatum. — Operc. crassum, extus concavum, arctispirum. — Diam. maj. 14, min. 11, alt. $6^1/_2$ mill. Ap. intus 5 mill. longa. (Coll. Nr. 22.)

*) T. suborbiculari, depressa, pallescente-fusca, tenui, spira brevi, mucronata; anfr. 4 rapide crescentibus, rotundatis, tenerrime transversim striatis; sutura valida; apertura circulari, peritremate duplici, externo lato, subreflexo, interno angusto, lineari; umbilico lato; operculo multispirali, sutura anfractuum lamellosa, margine canaliculato, intus nitido. (Sow. l. c.)

Cyclostoma substriatum Sow. in Proc. Zool. Soc. 1843. p. 61.*)
— — *Sow* Thes. N. 67. p. 113. t. 25. f. 95.
— — *Chemn.* ed. II. Cycl. N. 51. p. 57. t. 7. f. 18–20
Aperostoma substriatum Pfr. in Zeitschr. f. Mal. 1847. p. 104.
Cyclotus substriatus Gray Catal. Cycloph. p. 9. N. 16.
— — *Pfr.* Consp. N. 39.

Habitat in insula Siquijor Philippinarum (H. Cuming).

66 40. **C. corniculum Mousson.** †

T. parva, depresso-conica, subtus late umbilicata, tenuis, pallide lutescens, lineis fuscis fulguratis transversim picta; anfr. $4^1/_2$ terètes, celeriter increscentes, ultimus $^1/_3$ diametri aequans; spira subprominula; sutura simplex, profunda; apertura subsoluta, integra, circularis; perist. duplicatum, lamina externa subexpansa. — Operc. multispiratum, extus planum, calcareum, intus plane-concavum, membranaceum, glabrum. — Alt. 6, diam. maj. 9,5, min. 8 mill. — Rat. anfr. = 5:9. – Rat. ap. = 1:1. (M.)

Cyclostoma corniculum Mouss Jav. Moll. p. 51. t. 5. f. 11.
Cyclotus corniculum Pfr. Consp. N. 40.

Habitat Pardana Javae.

67 41. **C. plebejus Sowerby.**

T. umbilicata, depresso-globosa, tenuiuscula, striata, violaceo-fusca; spira breviter turbinata, acutiuscula; anfr. 4 convexi, rapide accrescentes, ultimus subinflatus, ad suturam et prope aperturam albicans; umbilicus angustus, pervius; apertura obliqua, circularis, intus castanea; perist. continuum, acutum, ad anfractum penultimum subangulato-duplicatum. — Operc. multispirale, extus albicans, macula centrali, depressa, margine canaliculatum, intus nitidum. — Diam. maj. 12, min. $10^2/_3$, alt. $8^1/_2$ mill. Ap. $6^1/_2$ mill. diam. (Coll. Nr. 23.)

Cyclostoma plebejum Sow. in Proc. Zool. Soc. 1843. p. 60.**)
— — *Sow.* Thes. N. 12. p. 94. t. 24. f. 40.
— — *Chemn* ed. II. Cycl. N. 50. p. 56. t. 7. f. 14. 15.

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*) T. suborbiculari, depressa, crassiuscula, laeviuscula, fuscescente, spira brevissima, submucronata; anfr. 4 rotundatis, postice transversim striatis, striis ex sutura profunda radiantibus, antice laevibus; apertura circulari, peritremate subincrassato, subreflexo; umbilico lato; operculo multispirali, latere canaliculato, intus nitido. (Sow. l. c.)

**) T. subglobosa, tenui, obscura, subfusca, spira breviuscula; anfr. 4 rotundatis, rapide crescentibus, apice obtusiusculo; sutura distincta; apertura magna, circulari; peritremate tenui; umbilico parvulo. (Sow. l. c.)

Aperostoma plebejum Pfr. in Zeitschr. f. Mal. 1847. p. 104.
Cyclotus plebejus Gray Catal. Cycloph. p. 7. N. 7.
— — *Pfr.* Consp. N. 41.

Habitat in provincia Laguna insulae Luzon.

42. C. exiguus Sowerby. † 68

T. subdiscoidea, spira elevatiuscula; anfr. 4 rotundati, albi, laeves; sutura profunde impressa; apertura circularis; peritrema marginatum; umbilicus magnus. (Sow.) — Diam. $10^1/_2$, alt. 6 mill. (Ex ic.)

Cyclostoma exiguum Sow. Thes. N. 63. p. 112. t 25. f. 92.
— — *Chemn.* ed. II. Cycl. N. 216. p. 192. t. 28. f. 24. (Ex Sow.)
Aperostoma exiguum Pfr. in Zeitschr. f. Mal. 1847. p. 104.
Cyclotus exiguus Gray Catal. Cycloph. p. 9 N. 17.
— — *Pfr.* Consp. N. 42.

Habitat . . . ?

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43. C. variegatus Swains. 69

T. latissime umbilicata, discoidea, solidula, subtiliter striatula, pallide fulvescens, unicolor vel castaneo eleganter et undatim strigata vel tessellata, interdum infra peripheriam unifasciata; spira plana, vertice haud prominulo, saepe nigricante; anfr. $4^1/_2$ convexiusculi, ultimus teres; apertura subobliqua, circularis; perist. duplex, internum breve, continuum, externum subexpansum, superne dilatatum, ad anfractum penultimum auriculatum. — Operc. subimmersum, crassum, arctispirum, extus medio concavum. — Diam. maj. $20^1/_2$, min. 17, alt. $6^1/_2$ mill. Ap. intus 7 mill. longa. (Coll. Nr. 24.)

Cyclostoma planorbulum Sow. Genera of shells. Cyclost. f. 1. Nec Lam.
— — *Sow.* Thes. N. 58. p. 110. t. 25 f. 85. *)
— — *Chemn.* ed. II. Cycl. N. 174. p. 161. t. 22, f. 6—16.
— *cornu venatorium Petit* in Journ. Conch. I. p. 43.

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*) T. discoidea, spira depressa, plana, colore pallido, castaneo-variegata; anfr. 5 rotundatis, gradatim majoribus, laevibus; sutura distincta, profundiuscula; apertura fere circulari, peritremate incrassato, superne et extus reflexo, ultimum versus anfractum desinente, fornicato; umbilico patulo. (Sow. l. c.)

Cyclotus variegatus Swains. Malacol. p. 336.
— — *Pfr.* Consp. N. 43.
— *planorbulus Gray* Catal. Cycloph. p. 8. N. 14. (ex parte.)
Aperostoma planorbulum Pfr. in Zeitschr. f. Malak. 1847. p. 104.

Habitat in insulis Philippinis (H. Cuming).

70 44. **C. Taylorianus Pfr.**

T. late umbilicata, depressa, subdiscoidea, tenuis, subtiliter striata, vix nitidula, sub epidermide fulvo-cornea albida, strigis fulguratis castaneis elegantissime picta; spira subplana, vertice corneo, mucronato; sutura profunda; anfr. 5 convexi, ultimus subbiangulatus, in quovis angulo serie pilorum nigrorum ciliatus, antice vix deflexus, 4 mill. pone aperturam tubulo rostellatim recurvato munitus; apertura perobliqua, subcircularis; perist. subduplicatum: internum expansum, adnatum, externum ad anfr. penultimum subincisum, margine sinistro breviter reflexo, dextro late expanso, supero tectiformi, dilatato. — Operc. calcareum, arctispirum, extus concaviusculum. — Diam. maj. 17, min. 13, alt. 6 mill. Ap. intus $5^1/_2$ mill. longa. (Coll. Nr. 25.)

Cyclostoma Taylorianum Pfr. in Zeitschr. f. Malak. 1851. p. 7.
— — *Chemn.* ed. II Cycl. N. 285. t. 38. f. 27—29. t 43. f. 1—3.
Cyclotus Taylorianus Pfr. Consp. N. 32.

Habitat Sarawak insulae Borneo.

Obs. Conf. *Pterocyclos biciliatus Mouss.*

71 45. **C. rostellatus Pfr.**

T. umbilicata, depressa, solidula, striatula, cornea, strigis fulguratis castaneis ornata; spira brevissime turbinata, vertice mucronato, nigro; anfr. $4^1/_2$ convexi, ultimus antice descendens, 5 mill. pone aperturam tubulo rostellatim recurvato munitus; umbilicus latiusculus; apertura perobliqua, subcircularis; perist. duplex, rubellum: internum continuum, subexpansum, adnatum, externum angulatim patens, superne breviter fornicato-dilatatum, infra anfractum penultimum angustissimum. — Operc. arctispirum, utrinque concaviusculum, intus rubrum, nitidum, margine sulcatum. — Diam. maj. 11, min. 9, alt. 5 mill. Ap. intus 4 mill. diam. (Mus. Cuming.)

Cyclostoma rostellatum Pfr. in Zeitschr. f. Mal. 1851. p. 8.
— — *Chemn.* ed. II. Cycl. N. 286. t. 38. f. 30—34.
Cyclotus rostellatus Pfr. Consp. N. 44.

Habitat Sincapore (Taylor).

Obs. 1. Differt a persimili *C. Tayloriano* spira subturbinata, anfractu ultimo descendente, umbilico angustiore, peristomate distincte duplicato, tubulo ab apertura remotiore.

Obs. 2. Conf. *Pterocyclos spiracellum Ad.* et *Reeve.*

II. Pterocyclos Benson.

Operculum subcartilagineum, multispirum, spiraliter lamellatum, intus concavum. Testa late umbilicata, subdiscoidea; peristoma plerumque duplex, internum breve, margine supero incisum, externum superne in alam vel rostrum tectiforme dilatatum.

Pterocyclos Benson in Journ. As. Soc. I. 1832. p. 11. et V. 1836. p. 356.
— *Benson* in Zool. Journ. V. N. 20. 1834. p. 462.
— *Gray* Syn. Brit. Mus. 1840. p. 133. Ed. 1842. p. 71. 91.
— *Sow.* jun. Conch. Man. ed II. p. 238.
— *Pfeiffer* in Mart. et Chemn. Conch. Ed. nov. I. 19. p. 193.
— *Troschel* in Zeitschr. f. Malak. 1847. p. 44.
— *Pfeiffer* ibid. p. 111.
— *Gray* in Proc. Zool. Soc. 1847. p. 182.
— *Benson* in Ann. and Mag. nat. hist. 2d. ser. I. 1848. p. 345.
— *Gray* Catal. Cyclophorid. 1850. p. 11.
— *Pfeiffer* in Zeitschr. f. Malak. 1851. p. 1. 135; Consp. p. 7.
Spiraculum Pearson in Journ. As. Soc. II. 1833. p. 590.
Steganotoma Troschel in Wiegm. Arch. f. Nat. 1837. I. p. 163.
— *Philippi* Abbild. I. 1844. p. 105.
Cyclostomatis species *Lam.*, *Sow.*, *Desh.*, *Soul.*, *Petit* etc.
Myxostoma Trosch. in Zeitschr. f. Malak. 1847. p. 44.

Species in genere meo sensu circumscripto enumerandae, in sequentes sectiones distribuendae erunt:

A. Aberrantes:
   1. Peristomate subsimplice . . . §. 1. Nr. 1.
   2. Perist. duplice, operc. planiusculo, anfract. extimis lamellatim elevatis (Myxostoma Trosch.) . . . . §. 2. — 2—3.

B. Genuini, operculo extus alte convexo, margine anfractuum lamellatim patente §. 3. — 4—16.

§. 1.

72 **1. Pt.? incomptus Sowerby.**

T. late umbilicata, depressa, solida, ruditer striata, opaca, sub epidermide fusco-cornea decidua alba; spira parum elevata, vertice prominulo; anfr. 5 convexi, rapide accrescentes, ultimus teres, obsolete angulatus; apertura diagonalis, subcircularis; perist. simplex, margine columellari incrassato, breviter adnato, a supero alatim dilatato sinu profundo sejuncto. — Operc.? — Diam. maj. 40, min. 32, alt. 15 mill. (Mus. Cuming.)

Cyclostoma incomptum Sow. Thes. Suppl. N. 183. p. 160*. t. 31 A. f. 298. 299. *)
Pterocyclos incomptus Pfr. in Zeitschr. f. Mal. 1851. p. 9.
— — *Chemn.* ed. II. Cycl. t. 31. f. 1. 2. Consp. N. 45.

Habitat in India? (Sowerby), in Brasilia (Cuming).

§. 2.

73 **2. Pt. brevis (Lituus) Martyn.**

T. late umbilicata, conoideo-semiglobosa, solida, striatula, nitidula, castanea, fulvido-variegata; spira brevis, obtusiuscula; sutura late impressa, marginata; anfr. 5 convexi, ultimus basi angulatim in umbilicum infundibuliformem abiens; apertura subcircularis, intus albida; perist. incrassatum, reflexum, superne ad anfractum penultimum in appendicem triangularem, profunde canaliculatam protractum, extus superne tuberculo lato, prominente munitum. — Operc. planiusculum, crassum, arctispirum, nigricans, anfractibus extimis lamellatim elevatis. — Diam. maj. 36, min. 30, alt. 22 mill. Ap. intus 12 mill. diam. (Mus. Cuming.)

Lituus brevis Martyn Fig. of non-described shells t. 28 c. Ed. Chenu (Bibl. conch. II.) p. 21. t. 8. f. 2.
Turbo Petiverianus Wood Suppl. t. 6. f. 2.
Cyclostoma Petiverianum Gray in Wood suppl. p. 36.
— — *Sow.* Spec f. 97. 98.
— — *Reeve* Conch. syst. II. t. 184. f. 15.

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*) T. depresso-suborbiculari, alba, epidermide olivaceo-brunnea induta; spira brevi, obtusa; anfr. 4½ rotundatis, oblique lineis incrementi validis striatis; sutura distincta; apertura fere circulari, postice prope ultimum anfractum sinuata, extus tuberculam fornicatam formante; peritremate antice incrassato; umbilico magno. (Sow. l. c.)

Cyclostoma Petiverianum Sow. Thes N. 74. p. 116. t. 25 f. 100. 101 *)
— — *Petit* in Journ. Conch. I. p. 43
— *breve Pfr.* in Chemn. ed. II. N. 180. p 166. t. 24. f. 1. 2.
Myxostoma Petiverianum Trosch. in Zeitschr. f. Mal 1847. p. 44.
— *breve Pfr.* ibid. p. 111.
— — *Gray* Catal. Cycloph. p. 15. N. 1.
Pterocyclos brevis Pfr. in Zeitschr. f. Mal. 1851. p. 9. Consp. N 46.

Habitat in India, Pulo Condore (Martyn).

3 Pt. planorbulus Lamarck. 74

T. latissime umbilicata, depressa, discoidea, solidula, striata et irregulariter malleata, fulva, lineis angulatis rufis conferte strigata et reticulata; spira plana, vertice vix prominulo; sutura profunda, canaliculata; anfr. 5 convexiusculi, ultimus subteres, peripheria nigricante fasciatus, circa umbilicum albus; apertura obliqua, subcircularis, intus coerulescenti-albida; perist. duplex: internum breviter expansum, superne sinu triangulari incisum, externum vix latius, patens, supra sinum alatim dilatatum, liberum. — Operc. subplanum, cartilagineum, arctispirum, anfractuum extimorum margine lamellatim elevato, ciliato. — Diam. maj. 39, min. 31, alt. 12 mill. Ap. 13½ mill. longa. (Mus. Cuming.)

Cornu venatorium Chemn. Conch. Cab. IX. P. II. p. 104. t. 127. f. 1132. 33? **)
Cyclostoma planorbula Lam. in Encycl. méth t. 461. f. 3.
— — *Lam.* Hist. VI. p 143. N. 1. Ed. Desh. p 353. ***)
— — *Desh.* in Enc. méth. II p. 39. N. 1. †)

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*) T. subglobosa, spira depressiuscula; anfr. 5 ventricosis, brunneis, mediane fusco-fasciatis, superne subangulatis, albido-articulatis; sutura marginata; apertura circulari, intus alba, peritremate reflexo, brunneo, superne in canalem decurrente; umbilico magno, margine angulato; operculo spirali, crasso, corneo (Sow. l c.)

**) Planorbis testa alba, valde depressa, umbilico patentissimo, apertura rotunda in angulo proximo anfractui vicino excisa seu dissecta. (Chemn l. c.)

***) T. anfractibus teretibus orbiculatim involutis, superne planulata, subtus late umbilicata, bizonata, supra luteo-rufescente, infra castanea; apertura alba; labro margine reflexo. — Diam. 19‴. (Lam l. c.)

†) Grande et belle espèce, assez mal figurée dans les auteurs, pour que nous ne les citions qu'avec doute. La figure de l'Encyclopédie est fort bonne, elle en donne une idée suffisante. Sans être tout à fait planorbique, cette coquille est cependant fort déprimée; l'ombilic, très large, est peu profond, et on y compte tous les tours de spire. Il est entouré, sur le dernier tour, de deux bandes brunes foncées; en dessus, la couleur est uniformément fauve; toute la surface est couverte de stries transverses très fines. Diamètre jusqu'à 19 lignes ou 43 millim. (Desh. l. c.)

Cyclostoma planorbulum Voigt in Cuv. Thierr. III. p. 177.
— — *Sow.* Thes. t. 25. f. 83.
— — *Chemn.* ed. II. t. 29. f. 16. 17.
— — *Petit* in Journ. Conch. I. p. 43.
Cyclotus planorbulus Swains. Malacol. p. 336.
— — *Gray* Catal. Cycloph. p. 8. (ex parte.)
Pterocyclos planorbulus Pfr. Consp. N. 47.

Habitat in insula Java? Borneo?

§. 3.

75 4. **Pt. Troscheli Benson.** †

T. latissime umbilicata, orbiculato-depressa; anfr. 4 lente accrescentes, ultimus antice subdilatatus; apertura circularis; perist. incrassatum, reflexum, superne antice obsolete sinuatum, ala cucullata, antice angulata, deflexa, anfractui penultimo adhaerente. — Operc. convexum, corneum. — Diam. $^7/_{10}$″. (Bland.) — Diam. maj. 20, min. 18 mill. ex ic. (B.)

Pterocyclos Troscheli Bens. in Ann. and Mag. VIII. 1851. Aug. t. 5. f. 2.
— — *Pfr.* Consp. N. 48.

Habitat ad Trincomalee insulae Ceylon (Bland).

Obs. „Affinis Myxostomati Trosch.“

76 5. **Pt. anguliferus Souleyet.**

T. late umbilicata, discoidea, solida, laevigata, nigricanti-castanea, albido irregulariter flammulata; spira plana; anfr. vix 5 convexiusculi, ultimus non descendens; apertura obliqua, subcircularis, intus fulvescenti-margaritacea; perist. duplex: internum breviter expansum, superne vix incisum, externum album, late expansum, superne ad anfractum penultimum in rostrum obtusum, subtus profunde excavatum, dilatatum. — Operc. extus conicum, lamella late 3—4-spirata circumvolutum, vertice glabro, intus laevigatum, corneum. — Diam. maj. 24, min. 18, alt. $6^1/_2$ mill. Ap. diam. 8 mill. (Coll. Nr. 26.)

Cyclostoma angulifera Soul. in Revue zool. 1841. p. 347. *)

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*) T. suborbiculari, superne planulata, subtus late umbilicata; anfr. 5 convexo-depressis, interdum obsolete costulatis, rufo-nigricantibus, transversim levissime striatis; apertura rotunda, supra angulosa, angulo supra convexo, subtus fornicato; perist. crasso, reflexo, albo, submargaritaceo, intus marginato; operc. laevi, convexo, spiratim carinato et sulcato, carinis lamellosis, vertice plano, subtus concavo, margaritaceo. — Diam. 22 mill. (Soul. l. c.)

Cyclostoma angulifera Soul. in Voy. de la Bonite. Moll. t. 30. f 6—11.
— *anguliferum Petit* in Journ. Conch. 1850. I p. 43.
Pterocyclos anguliferus Pfr. in Zeitschr. f. Malak. 1847. p. 111 et 1851. p. 6.
— — *Chemn.* ed. II. Cycl. p. 196. t. 24. f. 3—6. Consp. N. 49.

Habitat in Cochinchina.

6. **Pt. tenuilabiatus Metcalfe.** 77

T. late umbilicata, depressa, subdiscoidea, solida, striata et undique transverse malleato-impressa, fuscula, strigis castaneis saturatioribus angulosis marmorata; spira plana, subimmersa, vertice subprominulo; anfr. $4^1/_2$ modice convexi, celeriter accrescentes, ultimus subdepressus; apertura diagonalis, subcircularis; perist. duplex: internum breviter porrectum, superne subemarginatum, externum subcontinuum, album, latere columellari breviter reflexo, dextro dilatato, patente, supero juxta anfr. penultimum cucullatim elevato. — Operc.? — Diam. maj. 26, min. 21, alt. $6^1/_2$ mill. Ap. intus 8 mill. diam. (Mus. Metcalf.)

Cyclostoma tenuilabiatum Metc. in Proc. Zool. Soc. 1851.
Pterocyclos tenuilabiatus Pfr. Consp. N. 50.

Habitat in insula Borneo.

7. **Pt. Albersi Pfr.** 78

T. latissime umbilicata, discoidea, solidula, striatula, sub epidermide cornea alba, castaneo marmorata et fascia lata nigricante infra medium circumdata; spira medio vix elevata; sutura profunde canaliculata; anfr. 5 planiusculi, ultimus antice solutus, superne squamoso-carinatus; apertura subcircularis, intus albida; perist. duplex: internum rectum, prominulum, expansiusculum, superne profunde incisum, externum subincrassatum, patens, superne in rostrum antrorsum incurvatum, liberum, postice in carinam abiens protractum. — Operc. extus convexum, spiraliter lamellatum, lamellis inferis spinis erectis confertis coronatis, centralibus obsoletis, verticem planum nudum formantibus. — Diam. maj. 26, min. 22, alt. 9 mill. Ap. 8 mill. diam. (Mus. Cuming. et Albers.)

Pterocyclos Albersi Pfr. in Zeitschr. f Malak. 1847. p. 151.
— — *Chemn.* ed. II. Cycl p. 197. t. 28. f. 1—5. Consp. N. 51.
— — *Gray* Catal Cycloph. p 12 N. 4.
Cyclostoma Albersi Petit Journ. Conch. 1850. I. p. 43.

Habitat . . . ?

79 8. **Pt. hispidus Pearson.**

T. late umbilicata, discoidea, solida, lineis elevatis confertis, concentricis, striisque incrementi subtilissime decussata, sub epidermide hispidula, olivaceo-fusca, saturatius lineata, alba; spira plana; anfr. $5^1/_2$ subdepressi, ultimus 7—8 mill. pone aperturam rostro triangulari, subaperto, recurvato, suturam tangente munitus, antice descendens; apertura coerulescenti-albida, obliqua, subcircularis; perist. duplex: internum expansiusculum, undique appressum, superne triangulatim excisum, externum expansum, superne ad anfractum penultimum in cucullam planam dilatatum. — Operc. extus convexum, lamella angusta 3—4-spirata circumvolutum, superne planum, intus concavum, castaneum, nitidum. — Diam. maj. 28, min. $22^1/_2$, alt. 8 mill. Ap. diam. 8 mill. (Mus. Cuming. et v. d. Busch.)

Spiraculum hispidum Pears. in Journ. As. Soc. II. 1833 p. 391. t. 20.
Cyclostoma spiraculum Sow. Thes. N. 59. p 110 t. 31. f. 270-272 *)
— — *Petit* in Journ. Conch 1850. I. p 43.
Steganotoma Princepsi v. d. Busch in Phil. Abbild. I. 5. p. 106. Cyclost. t. 1. f. 6.
Pterocyclos hispidus Bens. in Journ. As Soc. V. 1836. p. 355.
— — *Bens.* in Ann. and Mag. 2d. ser. I. 1848. p. 346.
— — *Pfr.* in Zeitschr. f. Malak 1851. p 6. Consp. N. 52.
— — et *Prinsepsi Gray* Catal Cycloph. p. 12. N. 1. 2.
— *Prinsepi Pfr.* in Zeitschr. f. Malak. 1847. p. 111.
— — *Chemn.* ed. II. Cyclost. p. 195. t. 24. f. 7-10.

Habitat in regione Himalayana Indiae; Khasya Hills (Benson).

80 9. **Pt. rupestris Benson.**

T. late umbilicata, depressa, suborbiculata, solidula, corneo-albida, striatula, medio fascia castanea ornata, superne flammulis castaneis (basi obsoletioribus) variegata; spira subplana, medio prominula; anfr. fere 6 convexi, ad suturam profundam rugulosi, ultimus teres, non descendens; apertura obliqua, sub-

*) T. suborbiculari, planorbula, crassiuscula, albicante, castaneo radiatim irregulariter strigata, epidermide fuscescente induta; anfr. 5 rotundatis, nonnunquam laevibus, nonnunquam spiraliter striatis, striis subasperis; apertura circulari, peritremate duplici, interno angusto, subreflexo, postice emarginato, externo crassiusculo, reflexo, postice in canalem desinente; anfractu ultimo spiraculum tubulosum, vel fornicatum prope aperturam gerente; umbilico maximo, expanso; operculo multispirali, intus concavo, extus convexo, lamina spirali conspicua munito. (Sow. l. c.

circularis; perist. duplex: internum rectum, superne profunde incisum, externum expansiusculum, supra incisuram fornicatim dilatatum. – Operc. extus convexo-conicum, subconfertim spiratum, elevato-lamellatum, intus concavum, nitidum. — Diam. maj. 22, min. 19, alt. 8 mill. Ap. diam. 6½ mill. (Coll. Nr. 27.)

Pterocyclos rupestris Bens. in Journ. As. Soc. I. 1832. p. 11. t. 2.
— — *Bens* in Ann. and Mag. 2d. ser. I. p 346.
— — *Pfr.* in Zeitschr. f. Malak. 1851. p. 4. Consp. N. 53.
— — *Chemn.* ed. II. Cyclost. t. 31. f. 3–5.
— — et *pictus Gray* Catal. Cycloph. p. 12. N. 3. 5.
— *pictus Trosch.* in Zeitschr. f. Mal. 1847. p 45.
— — *Pfr.* ibid. p. 111.
— — *Chemn.* ed. II. Cyclost. p. 194. t. 24. f. 21—25.
Steganotoma picta Trosch. in Wiegm. Arch. 1837. I p. 165. t. 3. f. 12. 13. *)
— *pictum Phil.* Icon. I. 5. p. 105. Cycl. t. 1. f. 5.
Cyclostoma . . . . *Sow.* Conch. Man. f. 531?
— *pictum Petit* in Journ. Conch. 1850. I. p. 43.

β. Minor; diam. maj. 14, min. 12, alt. 6½ mill. (Mus. Cuming. et Benson.)
Pterocyclos rupestris var. Chemn. l. c. t. 31. f 9—11.

Habitat prope Pathargata provinciae Bahár Indiae.

10. **Pt. nanus Benson.** † 81

T. profunde perspective umbilicata, depressa, discoidea, albida, fascia media strigisque undulatis castaneis superne ornata; spira prominula, saturatior; anfr. 4½ convexi, ultimus supra solutus; apertura obliqua, circularis; perist. duplicatum, marginibus sulco leviter impresso vix discretis, interno superne profunde recteque inciso, externo reflexiusculo, supra sinum alam angustam fornicatam, antice breviter descendentem, angulatam, formante. — Operc.? — Diam. maj. 10, min. 8, alt. 5 mill. (B.)

Pterocyclos nanus Bens. in Ann. and Mag. nat. hist 2d. ser. N. 48. **)

Habitat ad basin montium „Nilgherries", Indiae Australis.

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*) T. late umbilicata, depressa, suborbiculari, solida, albida, fascia fusca cincta; spira prominula; anfr. sub-6 cylindraceis; suturis profundis; operculo acetabuliformi. — Diam. 8, alt. 3½'''. (Trosch. l. c.)

**) This interesting addition to the genus was sent to me by Dr. Jerdon with specimens of *Pterocyclos bilabiatus Sow.* Possessing a similar deep umbilicus, narrower than in the other known species, it was overlooked as a young and imperfect specimen. On examination it proves to have arrived

82 **11. Pt. parvus Pearson.**

T. late umbilicata, depressa, solidula, striatula, corneo-lutescens, fascia ramosa castanea ad peripheriam strigisque angulatis superne variegata; spira subplana, medio vix prominula; anfr. $4^1/_2$ convexiusculi, ultimus teres, antice descendens, basi pallidior; apertura obliqua, circularis; perist. duplex: internum breviter porrectum, superne sinu circulari emarginatum, externum latiusculum, reflexum, album, supra sinum angulatim recedens, ascendens, cucullatim dilatatum. — Operc.? — Diam. maj. 14, min. $11^1/_2$, alt. 5 mill. (Mus. Benson.)

Spiraculum parvum Pears. in Journ. As. Soc. II. 1833. p 392. t. 20.
Pterocyclos parvus Bens. in Journ. As. Sos V. 1836. p. 357.
— — *Bens.* in Ann. and Mag. 2d, ser. I p 346.
— — *Pfr.* in Zeitschr. f. Malak. 1851. p. 5. Consp. N. 54.
— — *Chemn.* ed. II. Cyclost. t. 31. f. 12—14.
Cyclostoma spiraculum var. Sow. Thes t. 31. f. 273?

Habitat „Khasya Hills" Indiae (Benson).

83 **12. Pt. Cumingi Pfr.**

T. latissime umbilicata, solida, striatula, nitida, fulvo-lutea, strigis castaneis fulguratis, bifasciatim latioribus et saturatioribus picta; spira plana; anfr. 5 convexi, ultimus teres, antice juxta penultimum in prominentiam elongatam, fornicatam, sulco circumscriptam tumefactus; apertura parum obliqua, subcircularis, intus margaritacea; perist. subsimplex, album, incrassatum, reflexum, superne sulco triangulari subinterruptum, in linguam inflexam, tenuiusculam productum. — Operc. extus conicum, nucleo centrali parvo, obtuso, anfractibus lamella spirali elevata signatis. — Diam. maj. 32, min. 28, alt. 6 mill. (Mus. Cuming.)

Pterocyclos Cumingi Pfr. in Proc. Zool. Soc. 1851 et Zeitschr. f. Mal. 1851. p. 5.
— — *Chemn.* ed. II. Cyclost. t. 31. f. 6—8. Consp. N. 55.

Habitat in insula Ceylon.

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at its full growth, being allied in the characters of the aperture to *Pt. rupestris*, but differing from the smallest varieties of that shell not only in size and in the form of the umbilicus, but also in the less curvature of the incision under the wing, which is moreover less expanded, and does not touch nor cover auy part of the preceding whorl. (Bens. l. c.)

13. **Pt. bilabiatus Benson.** 84

T. late umbilicata, depressa, fere discoidea, striatula, albida, strigis angulosis castaneis picta; spira vix elevata, apice obtusiusculo nigricans; anfr. 5 — 5½ convexiusculi, sensim accrescentes, ultimus teres, medio castaneo-fasciatus; apertura obliqua, circularis; perist. duplex: internum subcontinuum, rectum, superne profunde incisum, externum juxta anfractum penultimum cucullatim inflatum, margine dextro et basali profunde undulato-crispis. — Operc. (ex Sow.) circulare, spirale, intus concavum, extus convexum, lamellosum. — Diam. maj. 20, min. 17, alt. 8½ mill. Ap. intus 6 mill. diam. (Mus. Cuming.)

Pterocyclos bilabiatus Bens. 1834 in Zool. Journ. V. p. 462. (absque descript.)
— — *Bens.* 1836. Journ. As. Soc. V. p. 358.
— — *Pfr.* in Zeitschr. f. Malak. 1847. p. 111. 1851. p. 4. Consp. N. 56.
— — *Chemn.* ed. II. Cycl. p. 193. t. 24. f. 11 — 14.
— — *Gray* Catal. Cycloph p. 13. N. 6.
Cyclostoma bilabiatum Sow. Thes. N. 57 p. 110. t 25. f. 81. 82. *)
— — *Petit* in Journ. Conch. 1850 I p 43.

Habitat Salem prope Madras (Heath, Sowerby).

14. **Pt. Blandi Benson.** † 85

T. latissime umbilicata, orbiculato-depressa, albida, strigis undatis radiatis fusco-aurantiis fasciaque unica saturatiore ad peripheriam ornata; anfr. 4½ rapide accrescentes, ultimus antice subito valde alatim dilatatus; apertura obliqua; perist. subduplex: internum incrassatum, superne liberum, sinuatum, externum superne valde expansum, ala soluta antice angulata, descendente, supra anfractum penultimum projecta, postice sinum exhibente munitum. — Operc.? — Diam. 1″ (Bland.) — Diam. maj. 29, min. 23 mill. ex ic. (Bens.)

Pterocyclos Blandi Bens. in Ann. and Mag. VIII. 1851. Aug. t. 5. f. 1.
— — *Pfr.* Consp. N. 58.

Habitat ad Pulo Susson insulam prope Pulo Penang jacentem (Bland).

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*) T. discoidea, spira depressa, fere plana, colore pallido, castaneo-undulata; anfr. 5 rotundatis, gradatim majoribus, laevibus; sutura distincta, profundiuscula; apertura fere circulari; peritremate duplici, interno simplici, superne emarginato, externo extus undulato, sinuoso, superne in tuberculum fornicatum desinente; umbilico patulo, anfractibus distinctis. (Sow. l. c.)

86 15. **Pt.? spiracellum A. Adams et Reeve.** †

T. suborbicularis, planorbula; spira depressa, pallida; anfr. 4 rotundati, transversim striati, sutura distincta, ultimus dorso inflatus, demum coarctatus et quasi strangulatus, varice fornicato prope aperturam; apertura circularis; peritrema duplex, interne postice emarginatum, externe reflexum, postice in canalem desinens; anfr. ultimus spiraculum tubulosum prope aperturam gerens; umbilicus patulus, anfractibus intus conspicuis. — Operc. circulare, spirale, intus corneum, concavum, extus testaceum, margine sulcatum. (Ad. et Rv.) — Diam. maj. 10, alt. 5 mill. (Ex ic.)

Cyclostoma spiracellum A. Ad. et *Reeve* Voy. Samarang. Moll. p. 56. t. 14. f. 1.

Pterocyclos? spiracellum Pfr. Consp. N. 59.

Habitat in insula Borneo.

Obs. 1. „Pertinet ad divisionem Pterocyclorum."

Obs. 2. Nonne potius *Cycloto rostellato Pfr.* affinior, vel ejusdem speciei specimen?

87 16. **Pt.? biciliatus Mousson.** †

T. orbicularis, supra planulata, infra late umbilicata, tenuissima, submembranacea, striis transversis acutis et pilosis ornata, flavescens, flammulis fulvis picta; spira depressa; sutura valde profunda; anfr. $4^1/_2$ teretes, obscure biangulati, spiraliter ciliis incurvatis nigris biseriatim insigne ornati, ultimus deflectus; apertura obliqua, circularis (marginibus deflectis), angulo supero lamina bicanaliculata insolite predito. — Operc.? — Alt. 7, diam. maj. 14, 2, min. 11, 5 mill. — Rat. infr. = 1:2. (M.)

Pterocyclos biciliatus Mouss. Jav. Moll. p. 49. t. 20. f. 9.

— — *Pfr.* Consp. N. 57.

Cyclostoma biciliatum Petit in Journ. Conch. 1850. I. p. 43.

Habitat in Birmah, unde in folio Nepenthis ad Javam specimen unicum incompletum allatum esse traditur. (Mousson.)

Obs. Haec species imperfecte cognita *Cycloto Tayloriano Pfr.*, (cui synonymon addendum: *C. Charbonnieri Recluz* in Journ. Conch. 1851. II. p. 214. t 5. f. 12. 13) plurium speciminum operculo praeditorum observatione nunc bene stabilito, peraffinis videtur, nisi eadem?

III. Craspedopoma Pfeiffer.

Operculum corneum, solidum, arctissime spiratum, nucleo centrali, pagina externa plana, interna prominentia circulari in anfractu penultimo munita, medio profunde concava. Testa subturbinata, rimata, anfractu ultimo antice subcoarctato. Perist. continuum, simplex, prominentiam internam operculi excipiens.

Craspedopoma Pfr. in Zeitschr. f. Malak. 1847. p. 48. 111.
— *Gray* Catal. Cycloph. p. 13.
— *Pfr.* in Zeitschr. f. Malak. 1851. p. 137. Consp. p. 9.
Bolania Gray Syn. Brit. Mus. 1840 et 1842. p. 91 (sine charactere).
Cyclostomatis spec. *Lowe* et *Auctt.*
Valvatae spec. *Menke.*

Generis distinctissimi 2 species hodie novimus:

1. Cr. lucidum Lowe. 88

T. rimata, globoso-conica, solidula, striata, lucida, olivaceo-cornea; spira conica, acutiuscula; anfr. 5 convexi, ultimus obsolete angulatus, antice subsolutus, basi inflatus, rimam subarcuatam formans; apertura parum obliqua, circularis; perist. simplex, obtusum. — Operc. rutilum. — Diam. maj. $5^1/_3$, min. 5, alt. $5^1/_2$ mill. (Coll. Nr. 28.)

Cyclostoma lucidum Lowe Faun. Mader. p. 66. t. 6. f. 40. *)
— — *Sow.* Thes. N. 19. p. 97. t. 23. f. 20. 21. **)
— — *Chemn.* ed. II. Cycl. N. 111. p. 110. t. 13. f. 26. 27.
— *lucida Desh.* in Lam. hist. VIII. p. 369. N. 36.
Valvata mucronata Menke Synops. ed. II. p. 139. ***)
Craspedopoma lucidum Pfr. in Zeitschr. f. Malak. 1847. p. 111. Consp. N. 60.
— — *Gray* Catal. Cycloph. p. 13. N. 1.
Bolania lucida Gray in Mus. Brit. olim.

Habitat in insula Madera.

*) T. globoso-conoidea, olivaceo-cornea, nitida, laeviuscula, subimperforata; anfr. 5 convexis, transverse substriatis. — Axis 2, diam $2^1/_2$'''. — Testa, quoad formam, *Valvatam piscinalem* referens. (Lowe l. c.)

**) T subglobosa, olivacea, spira conoidea, subacuminata, anfr. 4—5 rotundatis, laevibus; apertura subporrecta, circulari, coarctata, margine obtuso; umbilico nullo; operculo crasso, intus margine elevato (Sow. l. c.)

***) V. testa globoso-conoidea, imperforata, viridi-flava vel fusco-nigra, opaca; spira convexa, mucronata. — Long. $2^1/_2$, lat. $2^1/_3$'''. — Hab. in insula Madera. Communicavit Dr. Blumenhagen. (Menke l. c.)

89 2. **Cr. Lyonnetianum Lowe.**

T. rimata, subcompresso-pyramidata, solidiuscula; striatula, nitida, nigricanti-castanea; spira conica, apice obtusula; anfr. 5 convexi, ultimus antice ascendens, subsolutus, peripheria subcarinatus, antice angustatus; apertura subverticalis, circularis; perist. rectum, simplex, continuum, breviter adnatum. — Operc. generis. — Diam. maj. $3^{2}/_{3}$, min. 3, alt. fere 4 mill. Ap. $1^{2}/_{3}$ mill. longa. (Coll. Nr. 29.)

Cyclostoma Lyonnetianum Lowe mss. test. Albers et Wollaston.
— — *Chemn.* ed. II. Cycl. N. 280. t. 38. f. 19—22.
Craspedopoma Lyonnetianum Gray Catal. Cycloph. p. 13. N. 2.
— — *Pfr.* Consp. N. 61.

Habitat in insula Madera.

IV. Aulopoma Troschel.

Operculum corneum, arctispirum, planorbiforme, e laminis 2 compositum, inter eas spiraliter canaliculatum, anfractu ultimo intus sulco circulari munito. Testa turbinato-depressa vel subdiscoidea; anfractus ultimus antice solutus, inde peristoma liberum, rectum, continuum, in sulco circulari operculi immersum.

Aulopoma Troschel in Zeitschr. f Malak. 1847. p. 43.
— *Pfr.* ibid. p. 110. 1851 p. 137. Consp. p. 9.
— *Gray* Catal. Cycloph. p. 14.
Cyclostomatis spec. *Auctt.*

90 1. **A. Itieri Guérin.**

T. late umbilicata, depressa, subdiscoidea, solida, striatula, albida, superne castaneo-variegata, plerumque epidermide olivaceo-fusca vel fulva undique obducta; spira mucronata, coeruleo-nigrescens; anfr. 4—$4^{1}/_{2}$ teretes, ultimus antice solutus, descendens; apertura obliqua, circularis; perist. continuum, rectum, acutum. — Operc. solidiusculum, anfr. 5 distanter oblique striatis. — Diam. maj. 22, min. 18, alt. 11 mill. (Coll. Nr. 30.)

Cyclostoma Itierii Guérin in Revue zool. 1847. p. 1.*)
— — *Petit* in Journ. Conch. I. p. 43.
— *cornu venatorium Chemn.* ed. II. Cycl. N. 173. p. 159. t. 22. f. 1—3!
Aulopoma Iticrii Pfr. in Zeitschr. f. Malak. 1847. p. 111; Consp. N. 62.
— — *Gray* Catal. Cycloph. p. 14. N. 3.
— *cornu venatorium Gray* ibid. p. 14. N. 1. (ex parte.)

β. Minus, lutescens, brunneo-strigatum et variegatum; diam. maj. 16, min. 12, alt. 7 mill.

Aulopoma Hofmeisteri Troschel in Zeitschr. f. Malak. 1847. p. 43.**)
— *Hoffmeisteri Gray* Catal. Cycloph. p. 14. N. 4.

Habitat in insula Ceylon.

2. A.? C. cornu venatorium Sowerby. † 91

T. orbiculato-depressa, albicans; spira mucronata, nigra; anfr. 4 ventricosi, superne transversim striati, infra laeves, linea mediana ferruginea; sutura profunda; apertura circularis; peritrema tenue, acutum; umbilicus maximus. (Sow.) — Operc.? — Diam. maj. 20, alt. 11 mill. (Ex ic.)

Cyclostoma cornu venatorium Sow. Thes. N. 48. p. 107. t. 24. f. 41 42. Nec Chemn.
Aulopoma cornu venatorium Pfr. in Zeitschr. f. Mal. 1847. p. 111. Consp. N. 63.

Habitat . . . ?

Obs. 1. „Haec species forma proxime accedit ad *C. planorbulum Lam.;* facile autem distinguitur labro omnino non reflexo.“ (Sow.)

Obs. 2. Species dubia, plerumque ad praecedentem relata, illi non prorsus congrua. Anfractus scilicet ultimus non solutus apparet, quare etiam genus dubium.

3. A. helicinum Chemnitz. 92

T. late umbilicata, subdiscoidea, tenuiuscula, striata, pallide cornea, rufo-marmorata et unifasciata; spira mucronata,

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*) T. crassiuscula, suborbiculari, superne depressa, pallida, castaneo-undulata, spira brevi; anfr. 5 striatis, striis ex sutura profunda radiantibus; ultimo anfractu prope aperturam disjuncto, antice inclinato; umbilico lato, profundo; operculo corneo, tenui, spirali, externe posito, marginem aperturae excedente. (Guérin l. c.)

**) T. planulata, fere discoidea, spira parum prominente, acuminata, flavida, fusco fasciata et variegata; sutura profunda; umbilicus latus. — Diam. 8‴. — Ceylon. (Trosch. l. c.)

coerulescenti-fusca; anfr. 4 teretes, ultimus antice descendens, solutus; apertura obliqua, subcircularis; perist. continuum, rectum, tenue, acutum. — Operc. arctius spiratum, quam *A. Itieri*, anfractibus convexis, extus confertim plicatis. — Diam. maj. 13, min. 10, alt. $6^1/_2$ mill. (Coll. Nr. 31.)

Turbo helicinus Chemn. Conch. Cab. IX. P. II p. 59. t. 123. f. 1067. 1068.*)
— *helicoidés Gmel.* Syst. p. 3602. N. 103.**)
Cyclostoma helicinum Chemn. ed. II. Cycl. N. 26. p. 35. 160. t. 4. f. 5. 6. t. 22. f. 4. 5.
— *papua? Pfr.* Krit. Regist. p. 85.
Aulopoma helicinum Pfr. in Zeitschr. f. Malak. 1847. p. 111. Consp. N. 64.
— — *Gray* Catal. Cycloph. p. 14. N. 2.

Habitat in insula Ceylon. (Dr. Th. Philippi.)

V. Cyclophorus Montfort.

Operculum corneum, tenue, arctispirum, extus magis minusve concavum. Testa globoso-turbinata, depressa vel discoidea; peristoma continuum, expansum vel rectum.

Cyclophorus Montfort Conch. syst. II. p. 290.
— *Blainv.* in Dict. sc. nat. XII. p. 290.
— *Desh.* in Encycl. méth. II. p. 236.
— *Blainv.* Malacol. p. 435. (Sectio Cyclostomatis.)
— *Pfr.* in Zeitschr. f. Malak. 1847. p. 47. 107.
— *Gray* in Proc. Zool. Soc. 1847. p. 182 et Catal. Cycloph. p. 15.
— *Pfr.* in Zeitschr. f. Malak. 1851. p. 138. Consp. p. 10.
Annularia α Schum. Essai p. 196.
— *Gray* Syn. Brit. Mus. 1842. p. 91.
Cyclophora Swains. Malacol. p. 185. 336. (ex parte.)
Aperostoma Trosch. in Zeitschr. f. Malak. 1847. p. 44. (ex parte.)
Cyclostomatis spec. *Auctt.*

*) T. umbilicata, variegata ex fusco, anfractibus rotundatis, ore rotundo, basi alba. Forma Helicis sed apertura Turbinis. (Chemn. l. c.)

**) T. alba supra lineis angulatis fuscis varia, anfractibus rotundatis: umbilico profundo amplo infundibuliformi. (Gmel. l. c.)

Numerosae, quae huic generi adscribendae sunt, species sequente modo distribui possunt.

A. Subturbinati.	
1. Peristomate expanso.	
a. Umbilico aperto, libero.	
α. Ecarinati	§. 1. Nr. 1—11.
β. Carinati vel subcarinati.	
* Obsolete angulati vel unicarinati	§. 2. — 12—25.
** Carinis vel costis spiralibus pluribus	§. 3. — 26—39.
b. Umbilico processu linguaeformi magis minusve occultato . . .	§. 4. — 40—45.
c. Umbilico clauso	§. 5. — 46—47.
2. Peristomate recto	§. 6. — 48—59.
B. Depressi.	
1. Peristomate expanso.	
a. Spiraliter costati vel striati . .	§. 7. — 60—65.
b. Laevigati	§. 8. — 66.
2. Peristomate recto,	
a. incrassato	§. 9. — 67—69.
b. tenui.	
α. Spiraliter striati vel sulcati .	§. 10. — 70—77.
β. Oblique rugulosi vel foveolati	§. 11. — 78 80.
γ. Simpliciter striati	§. 12. — 81—85.

§. 1.

1. **C. Himalayanus Pfr.** 93

T. umbilicata, globoso-turbinata, solidula, costis spiralibus obtusis 10—12, lineisque interjacentibus obsoletis sculpta, sub epidermide decidua, . . . albida; spira turbinata, superne rufa, acutiuscula; anfr. 5 convexiusculi, ultimus ventrosus, circa umbilicum angustum, infundibuliformem vix compressus; apertura subverticalis, circularis; perist. simplex, continuum, breviter adnatum, fusco-igneum, subincrassatum, breviter expansum, superne subangulatum. — Operc.? — Diam. maj. 48, min. 39, alt. 35 mill. Ap. intus 22 mill. longa. (Mus. Cuming.)

Cyclostoma Himalayanum Pfr. in Proc. Zool. Soc. 1851.
— — *Chemn.* ed. II. N. 228. t. 33. f. 10. 11.
Cyclophorus Himalayanus Pfr. Consp. N. 65. p. 50.

Habitat in montibus Himalayanis.

94 **2. C. speciosus Philippi.**

T. anguste umbilicata, depresse turbinata, solida, striis impressis spiralibus, confertis, subundulatis sculpta, castaneo et albido marmorata; spira late conoidea, obtusiuscula; anfr. 6 convexiusculi, ultimus permagnus, ad peripheriam carina obsoletissima alba cinctus, basi nigricanti-castaneo multifasciatus; apertura obliqua, ampla, subcircularis, intus submargaritacea; perist. album, undique late expansum, continuum, anfractui penultimo breviter adnatum, margine columellari reflexo. — Operc.? - Diam. maj. 61, min. 45, alt. 35 mill. (Coll. Philippi.)

Cyclostoma speciosum Phil. in Zeitschr. f. Malak. 1847. p. 123.
— — *Chemn* ed. II. Cycl. p. 170. N. 184. t. 25. f. 1—3.
Cyclophorus speciosus Pfr. in Zeitschr. f. Malak. 1847. p. 107. Consp. N. 66.
— — *Gray* Catal. Cycloph. p. 15. N. 2.

Habitat . . . ?

95 **3. C. Siamensis Sowerby.**

T. umbilicata, turbinato-depressa, solida, laevigata, castanea, strigis albidis fulguratis eleganter picta; spira breviter turbinata, obtusiuscula; anfr. 5 convexi, ad suturam profundam subplanati, ultimus ad peripheriam rotundatus, circa umbilicum infundibuliformem obsolete compressus; apertura parum obliqua, ampla, circularis, intus albida; perist. undique subincrassato-reflexum, ad anfr. penultimum breviter adnatum, luteo-carneum. — Operc.? — Diam. maj. 51, min. 40, alt. 29 mill. (Mus. Cuming.)

Cyclostoma Siamense Sow. Thes. Suppl. N. 178. p. 158*. t. 31 A. f. 292. 293. *)

*) T. depresso-subglobosa, albida, strigis maculisque castaneis angulariter flexuosis picta; spira subdepresso-conica, subacuminata; anfr. $3^1/_2$ rotundatis, ultimo maximo, ventricoso; sutura distincta, tenui; apertura circulari, maxima, intus alba; peritremate incrassato, pallide aurantiaco, rotundato, reflexo; umbilico majusculo (Sow. l. c.)

Cyclostoma Siamense Chemn. ed. II. Cycl. N. 331. t. 42. f. 5. 6.
Cyclophorus Siamensis Pfr. Consp. N. 67.

Habitat in Siam.

4. **C. tuba Sowerby.** 96

T. suborbicularis, depressiuscula, tenuis, laevis, albicans, rufescente-fusco variegata et nubeculata; spira brevis, subdepressa, acuminata; anfr. 5 planiusculi, primi carinati, ultimus maximus, rotundatus; apertura maxima, circularis, expansa, albicans; perist. albicans, tenue, latum, revolutum, supra anfractum penultimum interruptum; umbilicus magnus. Alt. 1, 5, lat. 2, 3‴. (Sow.) — Operc. rubello-corneum. — Diam. 45, alt. 25 mill. (Ex ic.)

Cyclostoma tuba Sow. in Proc. Zool. Soc. 1843. p. 83.
— — *Sow.* Thes. N. 91. p. 122. t. 27. f. 129. 130.
— — *Chemn.* ed. II. Cycl. N. 183. p. 169. t. 23. f. 10. 11. (Ex Sow.)
— — *Soul.* in Voy. Bonite. Moll. t. 30. f. 25–27.
Cyclophorus tuba Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 68.
— — *Gray* Catal. Cycloph. p. 16. N. 3.

β. Paulo minor, depressior, anfractu ultimo peripheria subcarinato, peristomate minus late expanso, vix reflexo. (Coll. Nr. 32.)

Habitat in monte Ophir Malaccae (H. Cuming).

5. **C. aquila Sowerby.** 97

T. umbilicata, depresso-turbinata, solidiuscula, sublaevigata, fulva, saturatius marmorata, cingulo angusto albo ad peripheriam ornata; spira elevatiuscula, acuta; anfr. 5 subplanulati, ultimus magnus, subangulatus; umbilicus mediocris, pervius; apertura subverticalis, transverse subdilatata, intus pallide fulvescens; perist. expansum, subincrassatum, fulvidum, marginibus callo tenui junctis, columellari basi dilatato, reflexo. — Operc. normale. — Diam. maj. 34, min. 28, alt. 21 mill. Ap. intus verticaliter 12 mill. alta, 14 lata. (Coll. Nr. 33.)

Cyclostoma aquilum Sow. in Proc. Zool. Soc. 1843. p. 61.*)

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*) T. suborbiculari, subdepressa, tenuiuscula, laevi, fulvescenti-fusca, nonnunquam cingulo pallescente mediano; spira brevi, acuminatiuscula; anfr. 5 subplanulatis, primis paululum carinatis, ultimo maximo, rotundato; apertura circulari, expansa, albicante vel fulvescente; peritremate subincrassato, reflexo, supra anfractum ultimum interrupto, latere umbilicali subsinuato; umbilico magno. (Sow. l. c.)

Cyclostoma aquilum Sow. Thes. N. 92. p. 123. t. 27. f. 131.
— — *Chemn.* ed II. Cycl. N. 5. p. 14. t. 8. f. 1. 2.
— *subtrochiforme Soul.* in Voy. Bonite. Moll. t. 30. f. 22—24?
Cyclophorus aquila Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 69.
— — *Gray* Catal. Cycloph. p. 16. N. 6.

β. Major, transitum quasi formans ad C. tubam; diam. maj. 46, min. 36, alt. 26 mill.

Cyclostoma aquilum var. Chemn. l. c. t 2. f. 1. 2.
— *perdix Sow.* Thes. t. 27. f. 128.

Habitat Singapore (H. Cuming) et in China. (Mus. Brit.)

98 6. **C. Pearsoni Benson.** †

T. umbilicata, depresso-turbinata, laevigata, obsolete spiraliter striata, supra castaneo-marmorata et late fasciata, subtus spiraliter castaneo-lineata, fascia alba ad peripheriam, subtus altera nigro-castanea concurrente ornata; spira depresso-conoidea, apice acuto; anfr. 5 convexiusculi, ultimus latus, subtus convexus; apertura vix obliqua, ampla, circularis, intus coerulescens; perist. expansum, undique reflexum, laete aurantium, marginibus callo brevi junctis; umbilicus subangustus, pervius, intus angustior. — Operc.? — Diam. maj. 42, min. 33, axis 25 mill. (B.)

Cyclostoma Pearsoni Bens. in Ann. and Mag New ser. VIII 1851.
Cyclophorus Pearsoni Pfr. Consp. N. 70.

Habitat in montibus Khasya ultra fines provinciae Bengaliae, ad Orientem spectantes.

99 7. **C. volvulus (Helix) Müller.**

T. umbilicata, conico-globosa, solida, laevigata, fulvescens, castaneo-variegata; spira conoidea, obtusa; anfr. 5 rotundati, ultimus obsoletissime angulatus, fascia lata nigro-castanea infra peripheriam ornatus; umbilicus mediocris, infundibuliformis, pervius; apertura obliqua, subcircularis, intus coerulescenti-albida; perist. albidum, duplex: internum continuum, incrassatum, subporrectum, externum reflexum, ad anfractum penultimum emarginatum. — Operc. extus concavum, margine anfractuum sublamelloso. — Diam. maj. 37, min. 29, alt. 23 mill. Ap. intus oblique 17 mill. longa. (Coll. Nr. 34.)

Helix volvulus Müll. Hist. verm. II. p. 82. N. 280. *)

*) T. trochiformi, umbilicata, acuminata, variegata; apertura circinnata, labro reflexo. — Diam 11—14¼—22 lin. (Müll. l. c.)

Helix volvulus Born Test. p. 379. t. 14. f. 23. 24. *)
— — *Gmel.* Syst. p. 3638. N. 91.
Lituus Martyn Fig. of non descr. shells t. 27. Ed. Chenu (Bibl. conch. II.) p. 21. t. 8. f. 1.
Turbo lituus Gmel Syst. p. 3589. N. 111. **)
Cyclophorus volvulus Montf. Conch. II. p. 291. t. 73. (exclusa patria.)
— — *Pfr.* in Zeitschr. f. Malak. 1847. p. 107. Consp. N. 71.
— — *Gray* Catal. Cycloph. p. 16. N. 7.
Cyclostoma volvulus Lam. Encycl. méth. t. 461. f. 5.
— — *Lam.* Hist. VI. p. 143. N. 2. Ed. Desh. VIII. p. 353. ***) (ex parte.)
— — *Desh.* in Encycl. méth. II. p. 39. N. 2. (ex parte.)
— — *Reeve* Conch. syst. t. 185. f. 21.
— — *Sow.* Thes. N. 89. p. 121. t. 26. f. 126. †)
— — *Chemn.* ed. II. Cycl. N. 19. p. 27. t. 3. f. 1 2.
— — *Soul.* in Voy. de la Bonite. Moll. t. 30. f. 18—21. (*Cycl. trochiforme Lam.*)
— — *var. Grat.* in Act. Bord. XI. p. 435. t. 3. f. 1.
— *laevigatum Voigt* in Cuv. Thierr. III. p. 178.
— *variata Boys* mss. in Mus. Brit.
Cyclophora volvula Swains Malacol. p. 336.
Aperostoma volvulus Trosch. in Zeitschr. f. Malak. 1847. p. 44.
Lister Hist. t. 50. f. 48.

β. Peristomate interiore antrorsum longe porrecto.
Cyclostoma volvulus var. Chemn. ed. II. t. 45. f. 1. 2.

γ. Minor; diam. maj. 27, min. 22, alt. 16 mill. (Mus. Cuming.)

Habitat in India; Pulo Condore.

8. **C. involvulus (Helix) Müller.** 100

T. umbilicata, turbinato-depressa, solida, superne costis spiralibus, obtuse elevatis, subconfertis munita, pallide fulvida,

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*) T. trochiformis, laevis; anfr. 5 convexi, contigui; spira acuminata; apertura circularis; labrum reflexum, crassum; labium adnatum; umbilicus centralis, patens, profundus; color fusco alboque varius, fasciis transversis obsoletis fuscis, maculis dispersis albis. Long. 10 lin., lat. 1 poll. (Born l. c.)

**) T. subovata laevi, apertura laterali marginata, umbilico tecto. (Gmel. l. c.)

***) T. trochiformi, profunde umbilicata, transversim striata, albo luteo et rufo variegata; spira acuminata; apertura alba aut lutea; labro margine reflexo. — Diam. baseos circa 1½ poll. (Lam. l. c.)

†) T. globoso-conica, apice obtusiusculo; anfr. 5 rotundatis, pallidis, fusco-variegatis, laevibus; sutura distincta, margine inferiore levato; apertura circulari, superne subcanalifera, peritremate albo, incrassato, reflexo; umbilico mediocri, margine obtuse carinato, intus laevi; operculo corneo, tenui, spirali. (Sow. l. c.)

castaneo marmorata; spira brevis, subacuminata; anfr. 5 convexi, ultimus latus, medio fascia pallida, infra peripheriam fascia lata nigricante, albido conspersa ornatus, basi convexa albidus; umbilicus mediocris, pervius; apertura parum obliqua, subcircularis, superne obsolete angulata, intus aurantiaca; perist. duplex: internum continuum, rectum, subincrassatum, igneum, externum reflexum, pallidius. — Operc. normale. — Diam. maj. 34, min. 28, alt. 20 mill. Ap. intus 14 mill. longa. (Coll. Nr. 35.)

Helix involvulus Müll. Hist. verm. II. p. 84. N. 281. *)
— — *Gmel.* Syst p. 3638. N. 92.
— — *Dillw.* Descr. cat. II. p. 890.
— *volvulus Wood* Ind. t 32. f. 7.
Turbo volvulus Chemn. Conch. Cab. IX. P. II. p. 57 **) (ex parte) t. 123. f. 1066!
Cyclostoma volvulus Lam. et *Desh.* ex parte. (Conf. praec.)
— — *Voigt* in Cuv. Thierr. III p. 178.
— *involvulus Gray* in Mus. Brit.
— — *Bens.* in Zool. Journ. V. p. 462. (Animal.)
— — *Sow.* Thes. N. 82. p 119. t. 26. f. 114—116. ***)
— — *Sow.* Conch. Man. f. 304.
— — *Chemn.* ed. II. N. 20. p. 28. t. 4. f. 3. 4.
Cyclophora involvula Swains. Malacol. p 336.
Cyclophorus involvulus Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 72.
— — *Gray* Catal. Cycloph. p. 17. N. 8.
Seba Thes. III. t. 40. f. 18. 19.
Lister Hist. t. 75. f. 75.

Habitat frequens in India: Sicrigully, Bahar, Patharghata in rupibus. (Benson.)

Obs. Forma singularis monstrosa exstat in collectione Sauliana (Londinensi), carina compressa supera et canali lato infra suturam distincta. Praeterea varietatem vidi medio compresse carinatam.

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*) T. trochiformi, umbilicata, acuminata, alba, striis spiralibus convexis; apertura circinnata, labro reflexo — Diam. 13 lin. (Müll. l. c.)

**) Testa ut cornu venatorium gyrata leviter transversim striata, ex albo et nigro-fusco fasciata, ex luteo et fusco variegata, profunde umbilicata, basi plerumque alba, ore rotundo, lutescente, solide fimbriato. (Chemn. l c.)

***) T globoso-conica, pallida, brunneo-variegata et fasciata, spira depressiuscula, obtusa; anfr. 5 rotundatis, superne spiraliter sulcatis, infra laevibus; sutura distincta; apertura circulari, superne subangulata; peritremate simplici, reflexo, aetate subcontinuo, antiquato; umbilico mediocri, intus laevi. (Sow. l. c.)

9. **C. picturatus Pfr.** 101

T. umbilicata, turbinato-depressa, solida, sublaevigata, albida, strigis et flammis reticulatis castaneis picta; spira breviter conoidea, obtusa; anfr. 4½ modice convexi, ultimus superne costis nonnullis obtusis, spiralibus munitus, infra peripheriam rotundatam fascia serrata ornatus, circa umbilicum mediocrem, profundum albus; apertura parum obliqua, subcircularis; perist. subsimplex, crassum, longe protractum, continuum, breviter adnatum, margine sinistro dilatato, patente. — Operc.? — Diam. maj. 29, min. 23, alt. 16 mill. Ap. intus 11 mill. longa. (Mus. Cuming.)

Cyclostoma picturatum Pfr. in Proc. Zool. Soc. 1851.
— — *Chemn.* ed. II N. 363. t. 45. f. 13. 14.
Cyclophorus picturatus Pfr. Consp. N. 73. p. 51.

Habitat . . . ?

10. **C. Ibyatensis Pfr.** 102

T. umbilicata, turbinato-depressa, solida, laevigata, subtiliter striatula, nitida, castanea, albido maculata et fasciata; spira turbinata, vertice acutiusculo, corneo; anfr. 5 modice convexi, ultimus ad suturam subdepressus, maculis magnis subquadratis vel triangularibus albis pictus, peripheria obsoletissime angulatus, circa umbilicum mediocrem, infundibuliformem albus; apertura parum obliqua, subcircularis; perist. subincrassatum, expansiusculum, marginibus approximatis, callo continuo junctis. — Operc.? — Diam. maj. 23, min. 18, alt. 14 mill. Ap. intus 10 mill. longa. (Mus. Cuming.)

Cyclostoma Ibyatense (Cyclophorus) *Pfr.* in Proc. Zool. Soc. 1851.
— — *Chemn.* ed. II. Cycl. N. 366. t. 45. f. 19. 20.
Cyclophorus Ibyatensis Pfr. Consp. N. 74. p. 51.

Habitat in insula Ibyat „Bashee Group“.

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11. **C.? atramentarius Sowerby.** 103

T. umbilicata, turbinata, tenuiuscula, laevigata, nitida, coerulescens, flammis et maculis angulosis castaneis variegata; spira conica, acutiuscula, superne nigricans; anfr. 6 convexi, ultimus basi subplanulatus; umbilicus angustus, vix pervius; apertura ovali-rotundata, intus castanea; perist. album, duplicatum: internum continuum, breviter porrectum, externum

horizontaliter patens, superne breviter interruptum. — Operc.? — Diam. 16, alt. 14 mill. (Mus. Cuming.)

Cyclostoma atramentarium Sow. Thes. N. 105. p. 128. t. 30. f. 236. *)
— — *Chemn.* ed. II. N. 146. p. 139. t. 18. f. 17. 18.
Cyclotus? atramentarius Gray Catal. Cycloph. p. 8. N. 13.
Cyclophorus? atramentarius Pfr. Consp. N. 75.

Habitat . . . ?

Obs. Conf. *C. marmoratum Fér.*

§. 2.

104 12. **C. aurantiacus (Annularia) Schumacher.**

T. depresso-turbinata, solida, confertim striata, lineis spiralibus, confertis obsolete decussata, nigricanti-castanea, fulvido et albido marmorata; spira brevis, acutiuscula; anfr. $5^1/_2$ convexi, ultimus permagnus, subdepressus, peripheria magis minusve carinatus, basi pallidus, castaneo-lineatus; umbilicus magnus, infundibuliformis; apertura subobliqua, ampla, subcircularis, intus coerulescens; perist. continuum, anfractui penultimo breviter adnatum, undique incrassato-expansum, carneum. — Operc. corneum, arctispirum, margine anfractuum lamelloso. — Diam. maj. 58, min. 46, alt. 32 mill. Ap. intus 24 mill. diam. (Coll. Nr. 36.)

Turbo volvulus var. Chemn. Conch. IX. t. 123. f. 1064. 65.
Helix volvulus γ Müll. Hist. verm. II. p. 83.
Annularia aurantiaca Schumacher Essai p. 196.
Cyclostoma pernobilis Gould in Bost. journ. 1844. p. 458. t. 24. f. 11. **)
— *pernobile Chemn.* ed. II. Cycl. N. 21. p. 30. t. 3. f. 15.
— *aurantiacum Chemn.* ib. N. 22. p. 31. 167. t. 4. f. 8. 9. t. 23. f. 4. 5.

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*) T. orbiculato-pyramidali, crassiuscula, laevigata, purpureo-nigricante, nonnunquam fusco-maculata; spira mediocri, conica, obtusa; anfr. 5—6 rotundatis, tenerrime transversim striatis; sutura distincta; apertura circulari, margine labii duplicato; peritremate reflexo, latiusculo, umbilicum versus angulato; umbilico mediocri. (Sow. l. c.)

**) T. depresso-conica, apice acuta, late umbilicata; anfr. 6 subdepressis, striis incrementi conspicuis et striis volventibus rugulosis, ultimo carina costali albida cincto; apertura magna, intus coerulescente, labro crasso, expanso, vivide sanguineo: superne coloribus piceis et lutescentibus varie nubeculata, infra albida, lineis piceis, volventibus interrupta. — Diam. 2″, alt. 1″. (Gould l. c.)

Cyclophorus aurantiacus Pfr. in Zeitschr. f. Malak. 1847. p. 107.
Consp. N. 78.
— — *Gray* Catal. Cycloph. p. 15. N. 1.

Habitat Mergui et Tavoy in imperio Birmano.

13. **C. Bensóni Pfr.** 105

T. umbilicata, subgloböso-turbinata, solida, lineis obliquis et confertis spiralibus subtiliter decussata, albido-fulva, castaneo variegata; spira turbinata, obtusiuscula; anfr. 5 convexi, supremi unicolores luridi, sequentes flammulato-picti, ultimus magnus, obsolete angulatus, ad carinam fascia nigricante et utrinque fasciis inaequalibus castaneis ornatus, circa umbilicum angustum, infundibuliformem pallidus, subcompressus; apertura parum obliqua, subcircularis, intus lactea; perist. continuum, igneo-aurantiacum, breviter adnatum, anguste fornicato-reflexum. -- Operc.? — Diam. maj. 43, min. 34, alt. 26 mill. (Mus. Cuming.)

Cyclostoma Bensoni Pfr. in Proc. Zool. Soc. 1851.
— — *Chemn.* ed. II. Cycl. N. 225. t. 32. f. 11—13.
Cyclophorus Bensoni Pfr. Consp. N. 79. p. 52.

Habitat . . . ?

14. **C. Borneensis Metcalfe.** 106

T. umbilicata, depresso-turbinata, tenuiuscula, striata, lineis spiralibus tenuissimis, confertis sculpta, superne fulvida, castaneo strigata et marmorata; spira conoidea, acutiuscula; sutura plana, marginata; anfr. 5 vix convexiusculi, ultimus acute carinatus, infra carinam fascia lata castanea, albido maculata ornatus, basi pallidus, convexus, circa umbilicum mediocrem subcompressus; apertura obliqua, subtruncato-ovalis; perist. breviter expansum, non incrassatum, marginibus distantibus, callo tenui junctis. — Operc. circulare, arctispirum, rubellum, extus concavum. — Diam. maj. 40, min. 33, alt. 20 mill. Ap. c. perist. oblique 22 mill. longa, 20 lata. (Mus. Cuming.)

Cyclostoma Borneense Metc. in Proc. Zool. Soc. 1851.
— — *Chemn.* ed. II. Cycl. N. 384. t 47. f. 1—3.
Cyclophorus Borneensis Pfr. Consp. N 80.

Habitat in insula Borneo.

15. **C. perdix Broderip et Sowerby.** 107

T. umbilicata, depresso-turbinata, tenuiuscula, lineis elevatis obsolete cincta, saturate castanea, punctis albidis con-

spersa, ad suturam fascia castaneo et albido articulata ornata; spira brevis, acuta; anfr. 5 planiusculi, ultimus magnus, angulatus, basi convexus; umbilicus mediocris, pervius; apertura vix obliqua, ampla, subcircularis, coerulescenti-albida; perist. late expansum, reflexum, marginibus subjunctis. — Operc. tenue, pellucidum, corneo-rubescens, extus concavum. — Diam. maj. 39, min. 27, alt. 19 mill. Ap. intus 15 mill. diam. (Coll. Nr. 37.)

Cyclostoma perdix Brod. et *Sow.* in Zool. Journ. V. p. 50.*)
— — *Sow.* Thes. N. 90. p. 122. t. 27. f. 127.**)
— — *Chemn.* ed. II. N. 55. p. 60. t. 8. f. 7—9.
— — *Mouss.* Jav. Moll. p. 54. t. 8. f. 1.
— *variegatum Val.* in Mus. Paris.
— — *Philippi* Abbild. I. 5. p. 104. t. 1. f. 3.
— *Aglae Sow.* teste Mouss. l. c. p. 54.
Cyclophorus perdix Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 81.
— — *Gray* Catal. Cycloph. p. 16. N. 4.

Habitat Tenasserim Indiae; et Java? (Mousson.)

108 16. **C. Zollingeri Mousson.** †

T. orbiculato-conica, umbilicata, carinata, transversim substriata, fusca, albopunctulata et maculata; spira prominula, nucleolo transversim fortiter striato, sutura lineari; anfr. $4^1/_2$—5 planiusculi, superne costulis obliquis, strias incrementi recte secantibus ornati, ultimus carina obtusa, albo fuscoque catenata, subtus paulum planiusculus, fascia dorsali obscura; apertura late orbiculata violacea, margine subincrassato, expanso. — Operc. membranaceum, obscure arctispiratum, pateraeforme, intus lubricum, centro prominulo. — Diam. maj. 23—31, min. 21 — 25, alt. 17—21 mill. Rat. anfr. = 1:2. Rat. ap. = 8:7. (M.)

Cyclostoma Zollingeri Mouss. Jav. Moll. p. 55. t. 7. f. 2.
Cyclophorus Zollingeri Pfr. Consp. N. 82

Habitat in insula Java.

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*) T. spira depressiuscula, acuminata; anfr 4 leviter striatis; carina media, aetate obliterata; apertura ampla, peristomate reflexo; umbilico mediocri. — Long. $^9/_{10}$, lat $1^1/_4$ poll. (Brod. et Sow. l. c.)

**) T. suborbiculari, albida, fusco varia, spira subdepresso-conica, subacuminata; anfr. 4—5, primis carinatis, ultimo carina obsoleta, fascia suturali pallida, fusco-articulata; sutura subobsoleta; apertura circulari; peritremate expanso, subrevoluto; umbilico magno. (Sow. l. c.)

Obs. „Differt a praecedente praeter staturam minorem carina distinctiore, anfractibus minus convexis, costulis obliquis, basi planiore et apertura latiore."

17. **C. porphyriticus Benson.** † 109

T. mediocriter umbilicata, depresso-conoidea, tenuis, striis confertissimis distinctis, elevatis, subundulatis, spiraliter munita, albida, superne saturate castaneo, subtus pallidiore ornata, maculis angulatis, circa suturam majoribus, conspersa, fasciis saturatis 2 albo-articulatis, altera ad peripheriam, altera inferiori, cincta; spira brevis, apice acuto, sutura vix distincta; anfr. 4½ planulati, ultimus angulatus, subtus planiusculus; apertura ampla, ovato-circularis, livide albida; perist. tenue, expansum, reflexum, marginibus callo tenui junctis, conniventibus, columellari angustato, leviter emarginato. — Operc.? — Diam. maj. 31, min. 24½, axis 18 mill. (B.)

Cyclostoma porphyriticum Bens. in Ann. and Mag 2d. ser. VIII. 1851.
Cyclophorus porphyriticus Pfr. Consp. N. 83.

Habitat in India orientali.

Obs. „Affine *C. aquilae Sow.*, tenuitate, forma depressa, carina et sculptura discrepans."

18. **C. expansus Pfr.** 110

T. umbilicata, turbinato-subglobosa, solidiuscula, spiraliter confertim striata, opaca, superne castaneo et albido variegata; spira conoidea, apice acutiuscula; anfr. 5 convexiusculi, ultimus convexior, dilatatus, peripheria subcarinatus, basi fasciis angustis castaneis ornatus; umbilicus angustus, pervius; apertura subverticalis, fere circularis; perist. subsimplex, continuum, breviter adnatum, pallide aurantiacum, undique aequaliter angulatim plano-expansum, margine subrevolutum. — Operc.? — Diam. maj. 30, min. 22, alt. 19 mill. Ap. intus 13½ mill. longa. (Mus. Cuming.)

Cyclostoma expansum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 290. t. 39. f. 20. 21.
Cyclophorus expansus Pfr. Consp. N. 84. p. 52.

Habitat Tavoy Birmanorum.

19. **C. Cantori Benson.** † 111

T. subanguste umbilicata, subgloboso-conoidea, spiraliter leviter striatissima, fulvida, sub epidermide albido-caesia, rufo-

fusco marmorata, punctata et lineata, plerumque fascia 1 nigrescente conspicue ad peripheriam cincta; spira conoidea, acuta; anfr. 5 convexiusculi, primi oblique striati, ultimi peripheria obsolete angulata; apertura ampla, circularis, subverticalis, marginibus callo tenui junctis; perist. expansum, subplanato-reflexum; umbilicus pervius. — Operc. tenue, corneum, multispiratum. — Diam. maj. 24—30, min. 19—23, axis 14½—19 mill. (B.)

Cyclostoma Cantori Bens. in Ann. and Mag 2d. ser. VIII. 1851.
Cyclophorus Cantori Pfr. Consp. N. 85.

Habitat ad insulam Penang (Cantor).

112 20. **C. Menkeanus Philippi.**

T. umbilicata, turbinata, solida, superne confertim concentrice striata, striis incrementi obliquis subdecussata, castaneo et albo marmorata; spira brevis, conoidea, obtusa; anfr. 5 convexi, ultimus peripheria angulatus, infra cingulum periphericum album latiore nigricanti-castaneo ornatus, basi laevior, circa umbilicum mediocrem albus; apertura obliqua, subcircularis, intus pallide aurantiaca; perist. duplex: internum continuum, rugosum, latere supero et dextro longe porrectum, externum incrassatum, expansum, superne angulatum, ad anfr. penultimum interruptum. — Diam. maj. 30, min. 28, alt. 20 mill. Ap. 15 mill. longa et lata. (Mus. Menke.)

Cyclostoma Menkeanum Phil. in Zeitschr. f. Malak. 1847. p. 123.
— — *Chemn* ed. II. N. 185. p. 171. t. 28. f. 6—8.
Cyclophorus Menkeanus Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 86.
— — *Gray* Catal. Cycloph. p. 18. N. 10.

Habitat prope Point de Galle insulae Ceylon (Benson).

113 21. **C. amoenus Pfr.**

T. umbilicata, depresso-turbinata, solida, laevigata, alba, lineis castaneo-fulvis crebris, maculis sagittaeformibus interruptis amoenissime picta; spira conoidea, obtusa; anfr. 4½ modice convexi, ultimus superne turgidus, peripheria carina subcompressa et infra eam fascia saturatiore signatus, basi convexus, circa umbilicum angustum, infundibuliformem albus; apertura parum obliqua, subcircularis; perist. duplex: internum continuum, stricte porrectum, externum crassum, patens, ad anfr. penultimum vix excisum. — Operc.? — Diam. maj. 30,

min. 24, alt. 18 mill. Ap. intus 13 mill. longa. (Mus. Cuming.)

Cyclostoma amoenum Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 362. t. 45. f. 11. 12.
Cyclophorus amoenus Pfr. Consp. N. 87. p. 52.

Habitat . . . ?

Obs. Differt a *C. Menkeano* testa laevigata, vertice obtuso et umbilico multo angustiore.

22. C. turgidus Pfr. 114

T. umbilicata, turbinato-globosa, solida, striata et minute malleata, fulvida, fasciis et lineis interruptis castaneis et plerumque ad suturam maculis sagittaeformibus ornata; spira turbinata, obtusiuscula; anfr. 5 convexi, ultimus superne turgidus, infra medium carina funiformi et fascia latiore nigricante circumdatus, basi subplanulatus, circa umbilicum angustum, infundibuliformem subcompressus; apertura obliqua, subangulato-rotunda; perist. duplex: internum continuum, externum crassum, expansum, ad anfr. penultimum breviter interruptum. — Operc. tenue, laete, corneum, extus concavum. — Diam. maj. 27, min. 23, alt. 18 mill. (Mus. Cuming.)

Cyclostoma crassum Pfr. in Proc. Zool. Soc. 1851. Jul (Nec Adams.)
— *turgidum Chemn.* ed. II. N. 241. t. 35. f. 15. 16.
Cyclophorus turgidus Pfr. Consp. N. 88. p. 53.
β. Minor; diam maj. 22, min. 18½, alt. 16 mill. (Coll. Nr. 38.)

Habitat Liew Kiew, var. in insula Ibyat „Bashee Group".

23. C. punctatus Grateloup. 115

T. umbilicata, depresso-turbinata, tenuiuscula, sublaevigata (oblique subtilissime striata), pallide lutescenti-cornea, punctis et maculis sagittaeformibus seriatis, castaneis ornata; spira brevis, apice acutiuscula, nigricans; anfr. 5 convexi, superiores saepe undulato-strigati, ultimus ventrosus, ad peripheriam subangulatus et fascia saturate castanea, utrinque denticulata ornatus; umbilicus angustus, pervius; apertura parum obliqua, subcircularis, intus albida; perist. undique breviter expanso-reflexum, marginibus callo junctis. — Operc.? — Diam. maj. 25, min. 20, alt. 18 mill. Ap. intus 12½ mill. longa. (Coll. Nr. 39.)

Cyclostoma punctata Grat. Act. Bord. XI. p. 440. t. 3. f. 10.*)
— *punctatum Chemn.* ed. II. N. 31. p. 40. t. 5. f. 12. 13.
— *irroratum Sow.* in Proc. Zool. Soc. 1843. p. 61.**)
— — *Sow.* Thes. N. 94. p. 123. t. 27. f. 134. 135.
Cyclophorus punctatus Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 89.
— — *Gray* Catal. Cycloph. p. 18. N. 11.

β. T. undique confertim castaneo-flammata et strigata; diam. maj. 24, min. 19, alt. 16 mill. (Mus. Cuming.)

Habitat in insula Ceylon (Grat.), China (Sowerby); var. β in insula Basilan Philippinarum.

116 24. **C. denselineatus Pfr.**

T. umbilicata, globoso-turbinata, solida, lineis spiralibus impressis et obliquis minutissime decussata, vix nitidula, pallide fulva, maculis et fasciis interruptis fuscis picta; spira turbinata, sursum nigricans, apice acuta; anfr. 5 parum convexi, ultimus superne convexior, infra medium obtuse carinatus, basi planiusculus, circa umbilicum angustum, pervium pallidus; apertura parum obliqua, subcircularis, transverse dilatata; perist. incrassatum, vix expansum, marginibus approximatis, callo junctis, columellari reflexiusculo. — Operc. planum, rubello-corneum. — Diam. maj. 23½, min. 20, alt. 16 mill. Ap. intus oblique 9½ mill. longa et lata. (Mus. Cuming.)

Cyclostoma denselineatum Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed II. N. 365. t. 45. f. 17. 18.
Cyclophorus denselineatus Pfr. Consp. N. 90. p. 53.

Habitat . . . ?

117 25. **C. marmoratus Férussac.**

T. umbilicata, conoideo-semiglobosa, solida, laevigata, albida, maculis et strigis fulvidis subreticulata; spira convexo-conoidea, superne nigricans, obtusiuscula; anfr. 5 convexius-

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*) T. trochiformi, umbilicata, luteola, transversim fasciata, seriatim lineolato-punctifera: fasciis lineolisque fusco-violaceis; anfr. 5 convexis; apertura rotunda intus albida; peristomate candido, subreflexo; spira acuta. — Alt. 18—20, diam. 22—23 mill. (Grat. l. c.)

**) T. subgloboso-conica, tenui, laevi, pallescente, fusco-irrorata, plerumque cingulo mediano nigricante; spira elevatiuscula, apice nigricante, obtuso; anfr. 5 ventricosis, primum subcarinatis, deinde rotundatis; sutura tenui; apertura fere circulari, postice obsolete subacuminata, anfractu ultimo tenuiter modificata; peritremate crassiusculo, rotundato-reflexo; umbilico mediocri. (Sow. l c.)

culi, ultimus medio obsolete angulatus, basi parum convexus; umbilicus subirregularis, mediocris, pervius; apertura fere verticalis, subcircularis, intus alba; perist. continuum, breviter adnatum, duplex: internum brevius, externum obtusum, subrectum, superne angulatum, margine columellari subincrassato. — Operc.? — Diam. maj. $11^1/_2$, min. 10, alt. 8 mill. (Mus. Cuming.)

Cyclostoma marmorata Féruss. Mus.
— *marmoratum Chemn.* ed. II. N. 301. t. 40. f. 9. 10.
Cyclophorus? marmoratus Pfr. Consp. N. 91.

Habitat . . . ?

Obs. Conf. *C. atramentarium Sow.*

§. 3.

26. **C. eximius Mousson.** 118

T. umbilicata, turbinato-depressa, solida, carinata, sub epidermide castaneo-fulva albida, fusco angulatim strigata; spira breviter turbinata, apice acutiuscula; anfr. 5 convexiusculi, costis 3 obtusis spiralibus superne sculpti, lineis spiralibus et obliquis reticulati, ultimus permagnus, infra carinam subacutam nigro-castaneus, tumidus, circa umbilicum majusculum, infundibuliformem sabcompressus; apertura parum obliqua, subcircularis; perist. pallide corneo-lutescens, duplex: internum continuum, expansum, cum externo connatum, externum subinterruptum, horizontaliter expansum, margine columellari dilatato, subreflexo. — Operc.? — Diam. maj. 62, min. 47, alt. 32 mill. Ap. intus 28 mill. longa et lata. (Mus. Cuming.)

Cyclostoma eximium Mouss. Jav. Moll. p. 53. t. 7. f. 1.*)
— — *Chemn.* ed. II. N. 227. t. 33. f. 1. 2.
Cyclophorus eximius Pfr. Consp. N. 92.

Habitat Khasya Hills Indiae; Java (Mousson).

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*) T. magna, solida, depresso-conica, valde umbilicata, fusca, albomarmorata et flammulata; anfr. 6 convexi, nucleolo spirae transversim regulariter striato, anfr. sequentes et ultimus, supra, costis 4 et striis interpositis, infra striis remotis, vix prominulis spiraliter cincti, umbilico subinfundibuliformi, pariete sulcato; apertura magna, late circularis, alba, perist. reflexo, incrassato, lamina parietali ad junctionem marginis extensa, subcanalifera, labro columellari expanso. — Diam. maj. 63, min. 46, axis 54, 6 mill — Rat anfr. = 4 : 7. Rat. apert. = 1 : 1. (Mouss. l. c.)

119 27. **C. Ceylanicus Pfr.**

T. umbilicata, depresso-turbinata, solida, liris elevatis permultis acutis (interpositis minoribus) et striis longitudinalibus confertissimis decussata, saturate castanea, strigis albis undulatis angustis picta; spira conoidea, obtusiuscula; anfr. 5 convexi, celeriter accrescentes, ultimus infra carinam submedianam, acutiorem fascia lata nigricante ornatus, circa umbilicum infundibuliformem subcompressus, stramineus; apertura subobliqua, subcircularis, intus coerulescenti-alba; perist. incrassatum, candidum, marginibus callo tenui, superne subcanaliculato, angulatim junctis, dextro expanso, columellari reflexo. — Operc. tenue, extus concaviusculum. — Diam. maj. 37, min. 30, alt. 24 mill. Ap. intus oblique 17 mill. longa. (Coll. Nr. 40.)

Cyclostoma Ceylanicum Pfr. in Chemn. ed. II. p. 171. N. 186. t. 29. f. 1—3.
indicum Sow. Thes. Suppl. N. 190. p. 163*. t. 31 B. f. 320. 321. *) (Non Desh., nec Phil.)
Cyclophorus Ceylanicus Pfr. in Chemn. ed. II. p. III. Consp. N. 93.

Habitat in insula Ceylon (Templeman).

120 28. **C. stenomphalus Pfr.**

T. umbilicata, trochiformis, solida, superne costis spiralibus pluribus validis, interjectis minoribus munita, fulvescens, saturătius obsolete marmorata et ad suturam articulato-fasciata; spira turbinata, acuta; anfr. 5½ convexi, ultimus ad peripheriam acutius carinatus, basi ventrosus, spiraliter striatus; umbilicus angustissimus, vix pervius; apertura ampla, subcircularis; perist. duplex: internum pallide aurantiacum, externum expansum, subincrassatum, superne dilatatum, angulatum, margine columellari incrassato, breviter reflexo. — Operc.? Diam. maj. 35, min. 28, alt. 24 mill. Ap. intus 16 mill. diam. (Coll. Nr. 41.)

Cyclostoma stenomphalum Pfr. in Zeitschr. f. Mal. 1846. p. 44.
— — *Chemn.* ed. II. N. 54. p. 59. t. 8. f. 5. 6.

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*) T. turbinato-conica, suborbiculari, subdepressa, fusca, albo-rutilante marmorata; spira brevi, subacuminata, apice obtuso; anfr 5½ convexis, liris spiralibus 3—4 elevatis, striis tenuioribus interjectis; ultimo anfractu ad peripheriam zona nigrescente cincto; sutura distincta; apertura circulari, postice subcanalifera, intus alba, peritremate subincrassato, revoluto, albido, nonnunquam subaurantiaco; umbilico maximo, margine subcarinato; operculum tenue, corneum, anfractibus 7—8. (Sow. l. c.)

Cyclophorus stenomphalus Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 94.
— — *Gray* Catal. Cycloph. p. 17. N. 9.

Habitat Khasya Hills Indiae (Mus. Cuming.) et in insula Elephanta prope Bombay? (Benson.)

29. **C. Jerdoni Benson.** † 121

T. umbilicata, depresso-turbinata, supra lineis elevatis spiralibus confertissimis corrugatis, strias obliquas decussantibus, subtus striis decussatis levioribus munita, albida, flammis fulguratis castaneis superne et usque ad dimidium basis picta, fascia pallida mediana, flammulis attenuatis articulata cincta; spira depressa, apice prominula, sutura distincta; anfr. 5 convexi, ultimus prope suturam depresso-planulatus, peripheria subangulatus; apertura vix obliqua, subcircularis, ad apicem angulata; perist. expansiusculum, incrassatum, albidum, ad umbilicum subreflexum, marginibus callo crasso junctis; umbilicus mediocris, profundus, pervius, anfractus 2 exhibens. — Operc.? — Diam. maj. 35, min. 28, axis 20 mill. (B.)

Cyclostoma Jerdoni Bens. in Ann. and Mag. 2d. ser. VIII. 1851.
Cyclophorus Jerdoni Pfr. Consp. N. 95.

Habitat ad latus montium Nilgherries (Jerdon).

30. **C. zebrinus Benson.** 122

T. umbilicata, depresso-turbinata, solidula, carinata, oblique subsquamose striata, costis spiralibus nonnullis elevatis superne subangulata, fulva, maculis latis castaneis strigisque undatis albidis irregulariter variegata; spira turbinata, apice obtusa; anfr. 5 convexiusculi, ultimus latus, basi convexus, circa umbilicum angustum, infundibuliformem subcompressus; apertura parum obliqua, circularis, intus coerulescens; perist. album, duplex: internum continuum, expansum, externum crassum, reflexum, adnatum. — Operc.? — Diam. maj. 34, min. 27, alt. 21 mill. Ap. intus 15 mill. longa. (Mus. Cuming.)

Cyclostoma zebrinum Bens. in Journ. As. Soc. 1836. V. p. 355.
— — *Sow.* Thes. Suppl. N. 176. p. 157*. t. 31 A. f. 287. 288. *)

*) T. suborbiculari, albida, strigis pluribus rufo-castaneis, angulato-flexuosis picta; spira subdepresso-conica, subacuminata; anfr. 4 carinatis, plicis paucis transversalibus distantibus, ultimo rugis undulatis longitudina-

Cyclostoma zebrinum Chemn. ed. II. N. 240. t. 34. f. 21—23.
Cyclophorus zebrinus Pfr. Consp. N. 96.

Habitat in montibus „Khasya Hills" Indiae (Benson).

123 31 **C. tigrinus Sowerby.**

T. umbilicata, turbinata, solida, striata, castanea, strigis et flammis obliquis et angulosis flavidis ornata; spira elevata, acutiuscula; anfr. 6 convexi, costis spiralibus pluribus, plerumque 3 majoribus cincti, ultimus basi sublaevigatus; umbilicus mediocris, pervius; apertura obliqua, subcircularis, intus lutescens; perist. incrassatum, concentrice sulcatum, breviter reflexum, marginibus callo aequali junctis, columellari supra umbilicum dilatato, patente. — Operc. tenue, corneum. — Diam. maj. 32, min. 27, alt. 21 mill. Ap. intus 15 mill. longa, 12½ lata. (Coll. Nr. 42.)

Cyclostoma tigrinum Sow. in Proc. Zool. Soc. 1843. p. 30. *)
— — *Sow.* Thes. N 100. p. 126. t. 29. f. 201—204.
— — *Reeve* Conch. syst. t. 183. f. 10.
— — *Chemn.* ed. II. N. 56. p. 61. t. 8. f. 13—16. t. 16 f. 17—20.
Cyclophorus tigrinus Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 97.
— — *Gray* Catal. Cycloph. p. 18. N. 13.

Habitat in insulis Philippinis (H. Cuming).

Obs. Conf. Sow. in Proc. 1843. p. 30, ubi 7 varietates describuntur.

124 32. **C. Aurora Benson.** †

T. anguste umbilicata, globoso-subturbinata, spiraliter 5—6 obsolete carinata, ferruginea, versus apicem rubens, oblique rugulosa; spira conoidea, apice obtusiusculo; anfr. 4½ convexiusculi, ultimi peripheria obsolete angulata; apertura

libus sculptis; sutura distincta; apertura circulari, peritremate incrassato, albo, reflexo; umbilico mediocri; epidermide crassa, fusca, plicis longitudinalibus, his setis fortibus munitis, instructa. (Sow. l. c.)

*) T. suborbiculari, conica, crassiuscula, laeviuscula, pallescente, strigis irregularibus transversis, saturate brunneis picta; spira subacuminata, submammillari; anfr. 5 raptim crescentibus, rotundatis, plerumque carinis 3—4 subobsoletis; apertura magna, orbiculari, postice subemarginata; peritremate reflexo, albo, incrassato, prope ultimum anfractum subinterrupto; labio columellari subextenso, umbilicum mediocrem partim tegente; sutura distincta; operculo tenui, corneo, multispirali, anfractuum marginibus lamellosis. — Long. 1, lat. 1, 25 poll. (Sow. l. c.)

ampla, vix obliqua, circularis, superne angulata; perist. continuum, expansiusculum, subincrassatum, reflexiusculum, aurantium; faux rubens. - Operc.? — Diam. maj. 28, min. 23, axis 19 mill. (B.)

Cyclostoma Aurora Bens. in Ann. and Mag. 2d. ser. VIII. 1851.
Cyclophorus Aurora Pfr. Consp. N. 98.

Habitat Darjiling Regionis Sikkimensis ad montes Himalayanos.

33. C. luridus Pfr. 125

T. umbilicata, depresso-turbinata, tenuiuscula, confertim spiraliter striata et costis sub-5 obtusis superne munita, nitida, fusco-fulvida; spira turbinata, apice livida, acutiuscula; anfr. 5 modice convexi, ultimus ad peripheriam obtuse angulatus et albo fasciatus, basi pallidior, obsolete fasciatus; umbilicus angustus, pervius; apertura magna, parum obliqua, subangulato-circularis; perist. simplex, tenue, marginibus disjunctis, dextro breviter expanso, sinistro subdilatato, fornicato-patente. — Operc.? — Diam. maj. 27, min. 23, alt. 19 mill. Ap. intus 14 mill. longa. (Mus. Cuming.)

Cyclostoma luridum Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 364. t. 45. f. 15. 16.
Cyclophorus? luridus Pfr. Consp. N. 99 p. 53.

Habitat . . . ?

Obs. Accedit ad genus Leptopoma.

34. C. leucostomus Pfr. 126

T. umbilicata, depresso-turbinata, solida, oblique confertissime striata et liris permultis obtusis spiralibus (nonnullis validioribus) sculpta, castaneo-fulva, strigis albis angulatis irregulariter flammulata; spira turbinata, apice obtusula; anfr. $4^1/_2$ convexi, ultimus circa umbilicum angustum, pervium albus; apertura parum obliqua, subcircularis, intus alba; perist. simplex, subincrassatum, album, breviter adnatum, marginibus superne subangulatim junctis, columellari dilatato, patente. — Operc.? — Diam. maj. 26, min. 21, alt. 16 mill. Ap. c. perist. 14 mill. longa. (Mus. Cuming.)

Cyclostoma leucostomum Pfr. in Proc. Zool. Soc. 9 Mart. 1852.
— — *Chemn.* ed. II. Cycl. N. 398. t. 48. f. 14—16.

Habitat . . . ?

127 35. **C. zebra Grateloup.**

T. perforata, globoso-conica, crassa, carinis pluribus lineisque interjectis spiralibus cincta, fusco, brunneo et albido marmorata; spira turbinata, superne nigricans, acutiuscula; anfr. 5 convexi, penultimus subgibbus, ultimus albo-unifasciatus; apertura obliqua, ovato-circularis, intus alba; perist. rectum, duplicatum, extus incrassatum, marginibus callo sinuoso junctis, columellari reflexo, perforationem saepe semitegente. — Operc. tenue, pallide corneum. -- Diam. maj. 17, min. 15, alt. 15 mill. Ap. intus $8^1/_2$ mill. longa. (Coll. Nr. 43.)

Cyclostoma zebra Grateloup in Act. Bord. XI. p. 441. t. 3. f. 9.*)
— — *Chemn.* ed. II. N. 138. p. 132. t. 13. f. 31. 32
— *Philippinarum var. Sow.* Thes. t. 29. f. 205. 207.
Cyclophorus zebra Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 100.
— — *Gray* Catal. Cycloph. p. 19. N 15.

β. Minor, fulvidus, liris tenuioribus, obtusis, inframediana plerumque validiore sculptis, perist. subsimplice, expanso; diam. maj. 12, min. 10, alt. 9 mill.

Cyclostoma zebra var. Chemn. l. c. t 43. f. 19. 20.

γ. Minor, albida, strigis interruptis castaneis saepeque fascia basali castanea vel fulva ornata, perist. distinctius duplicato, incrassato.

Cyclostoma zebra var. Chemn. l. c. t. 43. f. 21. 22.

Habitat in insulis Philippinis.

128 36. **C. Philippinarum Sowerby.**

T. perforata, conica, solida, costis spiralibus confertis superne sculpta, fulvida, castaneo-maculata et interrupte strigata, fasciis 2 albis, rufo-articulatis, 1 ad suturam, altera ad peripheriam; spira conica, acutiuscula; anfr. 6 vix convexiusculi, ultimus subangulatus, basi subplanulatus, sublaevigatus; apertura ovalis, intus albida; perist. rectum, subincrassatum, marginibus distantibus, callo junctis, columellari medio extrorsum dilatato. — Operc. normale. — Diam. maj. 10, min. 9, alt. 9 mill. Ap. 6 mill. longa, $4^1/_2$ lata. (Coll. Nr. 44.)

Cyclostoma Philippinarum Sow. in Proc. Zool. Soc 1842. p 83.**)
(ex parte.)

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*) T. conica, crassa, perforata, luteo-rubente ex albo variegata, transversim costato-sulcata, flammis longitudinalibus angulato-flexuosis, albidis; anfr. 6 convexis; apertura rotunda, intus candida; perist. albo, crassissimo, extus marginato. — Alt. 20, diam. 20 mill. — Cyclost. tigrino Cum. affine, sed neque carinatum, neque canaliculatum. — India orientalis (Gratel. l. c.)

**) T. globoso-conica, pallida, fusco-marmorata; spira subacuminata; anfr. 5 subrotundatis, superne longitudinaliter sulcatis, ultimo infra laevi-

Cyclostoma Philippinarum Sow. Spec. Conch. f. 180—183?
— — *Sow.* Thes. N. 99. p. 125. t. 29. f. 206.
— — *Chemn.* ed. II. N. 33. p. 42. t. 5. f. 17. 18. t. 13. f. 32—34.
Cyclophorus Philippinarum Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 101.
— — *Gray* Catal. Cycloph. p. 19. N. 16.

Habitat in insulis Philippinis.

Obs. Inter varietates a Cl. Sowerby l. c. enumeratas pleraeque ad *C. zebram Grat.* referendae videntur.

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37. C. Guimarasensis Sowerby. 129

T. umbilicata, subgloboso-conoidea, tenuiuscula, substriata, castanea, luteo maculata et ad suturam articulata; spira brevis, acutiuscula; anfr. 5 convexi, ultimus superne costis nonnullis obsoletis angulatus, ad peripheriam carinatus, basi convexus, unicolor, saturate brunneus; umbilicus angustus, vix pervius; apertura subcircularis, intus submargaritacea; perist. tenuiusculum, intus album, breviter expansum, marginibus approximatis, columellari perarcuato, subreflexo. — Operc.? — Diam. maj. 16, min. 14, alt. 12 mill. Ap. 9 mill. longa. (Coll. Nr. 45.)

Cyclostoma Guimarasense Sow. Thes. N. 115. p. 131. t. 31. f. 274. 275.*)
— — *Chemn.* ed. II. N. 96. p. 99. t. 12. f. 8. 9.
Leptopoma? Guimarasense Pfr. in Zeitschr. f. Mal. 1847. p. 109.
Cyclophorus Guimarasensis Gray Catal. Cycloph. p. 18. N. 14.
— — *Pfr.* Consp. N. 102.

Habitat in insula Guimaras Philippinarum (H. Cuming).

38. C. turbinatus Pfr. 130

T. umbilicata, depresso-turbinata, solidiuscula, spiraliter confertissime striata et obsolete pluricarinata, fulvida, fascia

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gato; apertura subrotunda; perist. obtuso, reflexo, superne producto, latere umbilici subsinuato; umbilico parvo. — Operc. tenue, corneum, laeve. — Alt. 0,6, lat. 0,5". (Sow. l. c.)

*) T. globoso-conica, tenui, brunnea, pallescente maculata, ad suturam articulata; spira acuminata, apice obtusiuscula; anfr. 5 ventricosis, postice obsolete 2—3 carinatis; apertura circulari, ampla; peritremate tenuiusculo, reflexo, albo; umbilico mediocri. (Sow. l. c.)

rufo-tessellata ad suturam mediocrem cincta; spira conoidea, apice acuta, cornea; anfr. 6 convexi, subangulati, ultimus basi subplanulatus; umbilicus mediocris, pervius; apertura obliqua, subcircularis; perist. album, duplex: internum breviter porrectum, externum breviter expansum, marginibus angulatim junctis, supero antrorsum subdilatato. — Operc. normale. — Diam. maj. 14, min. 12, alt. $8^1/_2$ mill. Ap. 6 mill. longa. (Mus. Cuming. et Gruner.)

Cyclostoma helicoides Sow. in Proc. Zool. Soc. 1843. p. 65.*) Nec Grat.
— — *Sow.* Thes. N 103. p. 127. t. 30. f. 245. 246.
— *turbinatum Pfr.* in Zeitschr. f. Mal. 1846. p. 38.
— — *Chemn.* ed II. N. 97. p. 100. t. 13. f. 17. 18.
Cyclophorus turbinatus Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 103.
— — *Gray* Catal. Cycloph. p. 19. N. 17.

Habitat in insula Bohol Philippinarum (H. Cuming).

131 39. **C.? triliratus Pfr.**

T. umbilicata, globoso-turbinata, tenuis, sub epidermide longitudinaliter rugosa et hispida castanea, pallidius variegata, ad suturam luteo-flammulata; spira conica, acuta; anfr. $5^1/_2$ convexiusculi, celeriter accrescentes, penultimus 2, ultimus 3 liris filiformibus, ciliatis cinctus: lira 1 supera, 1 peripherica, 1 prope infra illam; umbilicus angustus, pervius; apertura obliqua, subcircularis; perist. subsimplex, breviter expansum, intus albo-callosum, marginibus approximatis, callo junctis. — Operc.? — Diam. maj. 8, min. 7, alt. 6 mill. (Coll. Nr. 46.)

Cyclostoma triliratum Pfr. in Chemn. ed. II. N. 386. t. 47. f. 8—10.
Cyclophorus? triliratus Pfr. Consp. N. 104. p. 53.

Habitat Labuan, ad terram inter folia emortua (Gruner).

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*) T. suborbiculari, conoidali, crassiuscula, spiraliter striata, fulvescente, fusco radiatim strigata; spira brevi, acuminatiuscula; anfr. 5—6 rotundatis, antice laevibus, postice spiraliter striatis, obsolete 4—5 carinatis, carinis 2 posticis epidermide ciliatis; apertura circulari; peritremate duplici, albicante, postice emarginato, interno tenui, levatiusculo, externo angusto, reflexo; umbilico majusculo; operculo tenui, corneo, multispirali. (Sow. l. c.)

§. 4.

40. **C. validus Sowerby.** 132

T. umbilicata, depresso-turbinata, crassiuscula, laevigata, superne obsolete multicarinata, castanea, strigis luteis obliquis, fulguratis elegantissime variegata; spira conoidea, obtusa; anfr. 5 convexi, ultimus basi excentrice striatus; apertura obliqua, subcircularis, intus coerulescenti-alba; perist. album vel aurantiacum, incrassato-subreflexum, marginibus callo tenui angulatim junctis, columellari libero, supra umbilicum angustum dilatato-reflexo. — Operc. generis, margine anfractuum lamellari. — Diam. maj. 40, min. 33, alt. 26 mill. Ap. 20 mill. longa. (Coll. Nr. 47.)

Cyclostoma validum Sow. in Proc. Zool. Soc. 1842. p. 82. *)
— — *Sow.* Thes. N. 93. p. 123. t. 27. f. 132. 133.
— — *Chemn.* ed. II. N. 85. p. 89. t. 11. f. 9. 10. t. 16. f. 15. 16.
Cyclophorus validus Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 105.
— — *Gray* Catal. Cycloph. p. 16. N. 5.

Habitat in insulis Philippinis Leyte, Luzon, Samar, Mindanao (H. Cuming).

41. **C. Indicus Deshayes.** 133

T. anguste umbilicata, turbinato-conica, solida, carinis multis subelevatis sculpta, in fundo albido fusco et rutilo marmorata; spira turbinata, acutiuscula; anfr. $5\frac{1}{2}$ convexi, ultimus infra medium distinctius carinatus, fascia nigricante ornatus, sublaevigatus; apertura parum obliqua, subcircularis; perist. duplex: internum aurantiacum, breviter expansum, externum album, expansum, superne triangulatim dilatatum, margine columellari dilatato, reflexo, umbilicum semioccultante. — Operc.? — Diam. maj. 38, min. 32, alt. 25 mill. (Mus. Cuming.)

Cyclostoma indica Desh. in Bélanger voy. p. 415. t. 1. f. 4. 5.
— — *Desh.* in Lam. hist ed 2. VIII. p. 363. N. 28. **)

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*) T. orbiculari, crassiuscula, pallida, brunneo-variegata; spira elevatiuscula; anfr. 5 rotundatis, spiraliter striatis et nonnunquam obtuse 4—5 carinatis; sutura distincta; apertura circulari; peritremate incrassato, reflexo, umbilicum versus patente; umbilico mediocri. — Long. 1,5, lat. 1,8". (Sow. l. c.)

**) T. turbinato-conica, orbiculata, umbilicata, fusco albo-rutilante marmorata, ultimo anfractu ad peripheriam zona nigrescente cincto, subtus lineis

Cyclostoma indicum Müll. Synops. p. 38. *)
— — *Chemn.* ed. II. N. 229. t. 33. f. 3. 4.
Cyclophorus indicus Pfr. Consp. N. 106.

Habitat in insula Elephanta prope Bombay (Bélanger).

Obs. Descriptio mea ex specimine authentico!

134 42. **C. linguiferus Sowerby.**

T. umbilicata, depresso-turbinata, crassa, spiraliter obsolete striata, fulvescens, maculis brunneis angulatim variegata; spira elevatiuscula, apice obtusa; anfr. 5 convexi, ultimus basi ventrosus; umbilicus mediocris, pervius; apertura subverticalis, circularis, intus lactea; perist. subincrassatum, duplicatum, intus pallide fulvo late limbatum, margine supero vix expanso, columellari in appendicem semilunarem, patentem, basi anguste protractam dilatato. — Operc. tenue, extus concavum, anfr. 5 subaequalibus. — Diam. maj. 32, min. 25, alt. 22 mill. Ap. 16 mill. longa, 16 mill. (excl. append.) lata. (Coll. Nr. 48.)

Cyclostoma linguiferum Sow. in Proc. Zool. Soc. 1843. p. 31.**)
— — *Sow.* Thes. N. 98 p. 125. t. 29. f. 198.
— — *Chemn.* ed. II. N. 181. p. 168. t. 23. f. 1—3.
Cyclophorus linguiferus Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N 107.
— — *Gray* Catal. Cycloph. p. 19. N. 19.

Habitat in insula Bohol Philippinarum (H. Cuming).

135 43. **C. canaliferus Sowerby.**

T. umbilicata, depresso-turbinata, striis spiralibus confertis undique sculpta, carinisque 7—8 obtusis superne munita, castanea, albomaculata, juxta suturam profunde canaliculatam albo-articulata, infra fasciam albidam periphericam unicolor

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nigris fasciato; anfractibus 6 convexis, transversim trisulcatis, striis tenuioribus interjectis, apertura marginata pallide aurantiaca. — Diam. 38, alt. 35 mill. (Desh. l. c.)

*) T. orbiculata, turbinata, apice acuta, transversim striata; striis grossiusculis distantibus; anfractibus convexis, fusco-marmoratis, ad peripheriam linea nigro distinctis; apertura aurantia, circulari; marginibus incrassatis, dilatatis. — Diam 40 mill. (Müll. l. c.)

**) T. suborbiculari, subconica, crassa, pallescente, maculis saturate brunneis angulatim variegata; spira subacuminata, submammillari; anfr. 4 rotundatis, levibus, spiraliter obsolete striatis; apertura magna, orbiculari; peritremate incrassato, subreflexo; labio interno linguam latam efformante, umbilicum partim obtegente. — Long. 1,1, lat. 1,25". (Sow. l. c.)

castanea, basi pallida; spira breviter elevata, obtusiuscula; anfr. 5 convexi, ultimus subsolutus; umbilicus mediocris, pervius; apertura parvula, parum obliqua, subcircularis, intus nitide albida; perist. incrassatum, breviter reflexum, continuum, margine sinistro in laminam liberam, snbsemicircularem expanso. — Operc. circulare, corneum, arctispirum, extus concavum, intus medio umbonatum. — Diam. maj. 26, min. 22, alt. 18 mill. Ap. 11 mill. longa. Appendix linguaeformis 4½ mill. lata. (Coll. Nr. 49.)

Cyclostoma canaliferum Sow. in Proc. Zool. Soc. 1843. p. 81.*)
— — *Sow.* Spec. Conch. f. 195. 196.
— — *Sow.* Thes N. 71. p. 115. t. 27. f. 140. 141.
— — *Chemn.* ed. II N. 32. p. 40. t. 5. f. 14—16.
Cyclophorus canaliferus Pfr, in Zeitschr. f. Malak 1847. p. 107. Consp. N. 108.
— — *Gray* Catal. Cycloph. p. 19. N. 18.

β. Pallidus, ad suturam castaneo-tessellatus et infra medium fasciatus.

γ. Pallide lutescens, spira rubicunda, anfractu ultimo fascia 1 castanea basali ornato

δ. Appendice marginis sinistri angustiore, non semicirculari.

Habitat in provincia Tayabas insulae Luzon (H. Cuming), var. δ in insula Borneo.

Obs. Conf. *C. appendiculatum Pfr.*

44. C. lingulatus Sowerby. 136

T. umbilicata, subdepresso-conoidea, tenuiuscula, sublaevigata, castanea, ad suturam et peripheriam albo-articulata; spira brevis, acuminata; anfr. 5 vix convexi, ultimus superne costis 3—4 obtusis angulatus, plerumque acute carinatus, basi convexus; umbilicus mediocris, infundibuliformis; apertura vix obliqua, subcircularis, intus coerulescens; perist. continuum, plerumque duplex: internum acutum, vix porrectum, externum incrassatum, margine sinistro ala superne in appendicem linguaeformem dilatata cincto. — Operc. normale, subplanum. — Diam. maj. 21, min. 18, alt. 16 mill. Ap. 11 mill. longa. (Coll. Nr. 50.)

*) T. orbiculari, subdepressa, crassiuscula, albicante, brunneo-marmorata; spira depressa, obtusa; anfr. 4 rotundatis, spiraliter striatis et superne cariniferis, prope suturam brunneo albidoque articulatis et cingulo centrali brunneo ornatis; sutura canaliculata, margine canalis elevato; apertura circulari, peritremate incrassato, reflexo, umbilicum versus lamelloso-patente. — Long. 0,8, lat. 1,4" (Sow. l. c.)

Cyclostoma lingulatum Sow. in Proc. Zool. Soc. 1843. p. 64.*)
— — *Sow.* Thes. N. 101. p. 126. t. 29. f. 208—210.
— — *Chemn.* ed. II. N. 182. p. 168. t. 23. f. 6—10.
Cyclophorus lingulatus Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 109.
— — *Gray* Catal. Cycloph. p. 20. N. 20.

Habitat in insulis Philippinis Siquijor, Bohol, Zebu (H. Cuming).

137 45. **C. fulguratus Pfr.**

T. umbilicata, depresso-turbinata, solida, oblique striatula, sub lente confertissime decussata, alba, strigis fulguratis castaneis superne elegantissime picta; spira turbinata, apice obtusula, cornea; anfr. 5 convexi, ultimus rotundatus, ad peripheriam fascia alba et infra eam nigricanti-castanea ornatus, circa umbilicum angustum, vix pervium albus; apertura parum obliqua, subcircularis, intus livescens, nitida; perist. simplex, fulvidum, interruptum, marginibus callo tenui junctis, dextro et basali aequaliter expansis, columellari supra umbilicum dilatato, patente. — Operc.? — Diam. maj. 29, min. 23, alt. 19 mill. Ap. intus 13½ mill. longa. (Mus. Cuming.)

Cyclostoma fulguratum Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed II. N. 361. t. 45. f. 9. 10.
Cyclophorus. fulguratus Pfr. Consp. N. 110. p 54.

Habitat Arva.

§. 5.

138 46. **C. turbo (Trochus) Chemnitz.**

T. obtecte perforata, trochiformis, tenuiuscula, sublaevigata, in fundo luteo vel albo castaneo marmorata; spira turbinata, acutiuscula; anfr. 4 convexiusculi, ultimus angulatus, interdum distincte carinatus, basi subplanulatus; apertura obliqua, subtetragono-rotundata, intus albida; perist. incrassatum, reflexiusculum, album, marginibus remotis, callo tenuissimo junctis,

*) T. suborbiculari, subdepresso-conoidea, tenuiuscula, laevigata, pallide fusco varie maculata vel radiatim strigata; spira brevi, subacuminata, apice obtusiusculo; sutura subinconspicua; anfr. 4½ ventricosiusculis, plerumque acutimarginatis, nonnunquam margine ultimi rotundato; apertura circulari; peritremate pallido, plerumque duplici, interno lineari, externo latiori, reflexo, supra umbilicum plus minusve late extenso; umbilico mediocri. (Sow. l. c.)

columellari in laminam appressam expanso, basali superne in tuberculum prominens desinente. — Operc. tenuissimum, lutescenti-corneum, arctispirum. — Diam. maj. 25, min. 21, alt. 16 mill. Ap. intus 10 mill. longa. (Coll. Nr. 51.)

Trochus turbo Chemn. Conch. Cab. IX P. II. p. 53. t. 122. f. 1059. *)
Helix turbo Gmel. Syst p. 3642. N. 232.
Cyclostoma turbo Sow. Thes. N. 75. p. 116. t. 25. f. 102. 103. **)
— — *Chemn.* ed. II. N. 148. p. 140. t. 19. f. 4. 5.
— — *Jay* Catal. Ed. 1850. p. 260. N. 6014.
— *maculosa Jay* Catal. Ed. 1839. p. 122. t. 7. f. 9. 10. ***)
Cyclophorus turbo Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 111.
— — *Gray* Catal. Cycloph. p. 20. N. 21.

Habitat Tranquebar et Coromandel (Chemnitz), Sumatra (Sowerby); ins. Nicobar. (Mörch.)

47. **C.? ictericus Sowerby.** 139

T. subobtecte umbilicata, globoso-conica, solida, spiraliter et confertim lirata, subunicolor fulvescenti-flava; spira conica, apice subtruncata; anfr. 5 convexiusculi, ultimus spiram aequans, basi profundius sulcatus; apertura subobliqua, ovalis, rotundata, intus concolor; perist. subincrassatum, expansum, marginibus callo lunatim exciso junctis, columellari superne in laminam fornicatam, reflexam expanso. — Operc.? — Diam. maj. 22, min. 16½, alt. 18 mill. Ap. 14 mill. longa, 12 lata. (Mus. Cuming.)

Cyclostoma ictericum Sow. Thes. N. 113. p. 131. t. 31. f. 268. 269. †)
— — *Chemn.* ed. II. N. 150. p. 142. t. 19. f. 8. 9.

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*) T. trochiformi, ex luteo et rufo variegata, subperforata, ore lunato seu rotundo; anfr. 6. (Chemn. l. c.)

**) T. subglobosa, spira conoidali, anfr. 5 planulatis, pallidis, brunneo-variegatis; sutura inconspicua; apertura fere circulari, latere columellari subangulato; columella rectiuscula, subobliqua; peritremate reflexo, rotundato, postice marginato, infra in angulum desinente; umbilico clauso, calloso; operculo corneo, tenui, spirali. (Sow. l. c.)

***) Remarkable for the angularity of the base of the body whorl, and somewhat resembles the base of a Trochus. The umbilicus is almost closed. The shell has a polished appearance and is beautifully mottled with reddish brown blotches. (Jay l. c.)

†) T. globoso-conica, crassiuscula, fulvescente, spira acuminata, apice decollato; anfr. 4 rotundatis, spiraliter sulcatis; apertura circulari, peritremate incrassato, reflexo, supra umbilicum parvum crasso, extenso, umbilicum fere tegente, postice subacuminato; sulcis spiralibus umbilici majoribus. (Sow. l. c.)

Cyclophorus? ictericus Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 112.
— — *Gray* Catal. Cycloph. p. 20. N. 22.

Habitat . . . ?

§. 6.

140 48. **C. lutescens Pfr.**

T. umbilicata, depresso-conoidea, solida, oblique filoso-striata, sericea, fusco-lutescens; spira breviter conoidea, acutiuscula; sutura profunda, simplex; anfr. $4\frac{1}{2}$ convexi, celeriter accrescentes, ultimus non descendens; umbilicus mediocris, profundus; apertura vix obliqua, rotundato-ovalis; perist. simplex, acutum, continuum, breviter adnatum, superne vix angulatum. — Operc. membranaceum, pallide corneum, arctispirum, extus profunde concavum. — Diam. maj. 20, min. $15\frac{1}{2}$, alt. 12 mill. Ap. 10 mill. longa. (Mus. Cuming.)

Cyclostoma lutescens Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 345. t. 43. f. 12—14.
Cyclophorus lutescens Pfr. Consp. N. 76. p. 51.

Habitat in Brasilia.

Obs. Forma et umbilico *Cycloto translucido* persimilis.

141 49. **C. Amboinensis Pfr.**

T. umbilicata, turbinato-depressa, solida, laevigata, castaneo-fulva, guttis albis ad peripheriam fasciam interruptam formantibus aspersa; spira convexo-conoidea, obtusula; anfr. $4\frac{1}{2}$ convexi, ultimus rotundatus, basi pallidior; umbilicus angustus, pervius; apertura parum obliqua, subcircularis, intus pallida; perist. simplex, subincrassatum, vix expansiusculum, marginibus superne subangulatim junctis. — Diam. maj. 18, min. 15, alt. 10 mill. Ap. c. perist. 9 mill. longa. (Mus. Cuming.)

Cyclostoma Amboinense (Cyclophorus) Pfr. in Proc. Zool. Soc. 1852. 9 Mart.
— — *Chemn.* ed. II. Cycl. N. 400. t. 48. f. 20—22.
β. Minor, castaneus, albido sparse strigatus et subfasciatus; diam. maj. 14, min. $11\frac{1}{2}$, alt. $8\frac{1}{2}$ mill.
Cyclostoma Amboinense var. Chemn. l. c. f. 23. 24.

Habitat in insula Amboina.

50. **C. coeloconus Benson.** † 142

T. subaperte umbilicata, turbinata, tenuis, scabre confertim radiato-striata, olivaceo-lutescens, fascia unica submediana, strigisque undatis, radiatis, rufo-fuscis ornata; spira conoidea, apice acutiusculo; sutura bene impressa; anfr. $4^1/_2$ valde convexi, ultimus cylindricus; apertura obliqua, ovato-circularis; perist. tenue, acutum; umbilicus profundus, omnes anfractus exhibens. — Operc.? — Diam. maj. 13, min. 11, axis 9 mill. (B.)

Cyclostoma coeloconus Bens. in Ann. and Mag. 2d. ser. VIII. 1851.
Cyclophorus coeloconus Pfr. Consp. N. 113.

Habitat ad radices montium Nilgherries (Jerdon).

51. **C. Apiae Récluz.** 143

T. umbilicata, pyramidata, rudis, plicis confertis obliquis rugata et lineis elevatis spiralibus irregulariter cincta, opaca, virenti-cinerea; spira convexo-conoidea, acuta; sutura mediocris; anfr. 5 vix convexiusculi, ultimus descendens, rotundatus, basi circa umbilicum angustum compressus; apertura obliqua, subcircularis; perist. subcontinuum, breviter adnatum, simplex, rectum. — Operc. circulare, corneum, obsolete spiratum, extus concavum, intus convexum, nitidum, umbonatum. — Diam. maj. $10^1/_2$, min. 10, alt. 9 mill. (Coll. Nr. 52.)

Cyclostoma plicatum Gould in Proc. Bost. Soc. 1847. p. 204 *) et Exped. shells p. 38. Ed. 1851. p. 103. f. 118. Nec Vern.
— *Apiae Récluz* in Journ. Conch. 1851. II. p. 213. t. 6. f. 10. 11.
— *pulverulentum Philippi* in litt.
— — *Chemn.* ed. II. N. 302. t. 40. f. 13. 14.
Cyclophorus plicatus Pfr. Consp. N. 114.

Habitat Upolu Insularum Pacificarum. (Baie Apia ins. Opolu: Charbonnier.)

52. **C. strigatus Gould.** 144

T. umbilicata, conoideo-semiglobosa, solidula, concentrice acute lirata, opaca, viridulo- vel rubello-albida; spira convexo-

*) T. parva, solida, rudis, pyramidata, cinereo-virens, plicis confertis obliquis rugata, et striis minutis volventibus cincta: spira acuta, anfr. 6 rotundatis et sutura bene discretis, ultimo ad peripheriam rotundato; infra convexa et umbilico modico acute marginato perforata: apertura circularis; peritremate simplici. — Lat. $^2/_5$, alt. $^2/_5$ poll. (Gould l. c.)

conoidea, acutiuscula; sutura profunda; anfr. 5 parum convexi, ultimus recedens, basi striatulus, subplanus, circa umbilicum latiusculum subcarinatus; apertura obliqua, circularis; perist. simplex, continuum, breviter adnatum, rectum, obtusum. — Operc.? — Diam. maj. 12, min. $10^2/_3$, alt. 8 mill. (Mus. Cuming.)

Cyclostoma strigatum Gould in Proc. Bost. Soc. 1847. p. 204 *) et Exped. shells p. 38. Ed. 1851. p. 102. f. 117.
— — *Chemn.* ed. II. N. 303. t. 40. f. 15. 16.
Cyclophorus strigatus Pfr. Consp. N. 115.

Habitat Upolu Insularum Pacificarum.

145 53. **C. tiara Gould.** †

T. solida, turbinata, rudis, distorta, sordide alba, late umbilicata; spira anfr. 5 laxis, rotundatis, spiraliter liratis, supernis undulatis, inter liros lineis incrementalibus conferte clathratis; apertura circularis, peritremate simplici. — Lat. $^3/_4$, alt. $^1/_2$ poll. (G.)

Cyclostoma tiara Gould in Proc. Bost. Soc. 1847. p. 204 et Exped. shells p. 37. Ed. 1851. p. 101. f. 116.
Cyclophorus tiara Pfr. Consp. N. 116.

Habitat Upolu Insularum Pacificarum.

Obs. Species 2 praecedentibus peraffinis.

146 54. **C.? obligatus Gould.** †

T. parva, crassa, subglobosa, cinerea, arcte perforata, utrinque sulcis et costulis acutis subcrenulatis aequalibus cincta, et lineis incrementi subtilissimis striata; spira acuta, anfr. 5 rotundatis; apertura parva, ovata, peristomate simplice, crasso. — Lat. $^5/_{16}$, alt. $^3/_8$ poll. (G.)

Cyclostoma obligatum Gould in Proc. Bost. Soc. 1847. p. 205 et Exped. shells p. 38. Ed. 1851. p. 104. f. 119.
Cyclophorus? obligatus Pfr. Consp. N. 117.

Habitat in insula Matea.

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*) T. solida, orbiculato-conica, pallide beryllina, supra costulis cingulata, infra subplanulata, umbilico amplo et carina acuta impendente limitato perforata: spira anfr. 5 convexis, sutura bene discretis, ultimo prope aperturam despecto, fere disjuncto; apertura circularis; peristomate simplici, everso, acuto. — Long. $^9/_{20}$, alt. $^3/_{10}$ poll. (Gould l. c.)

55. C. parvus Sowerby. 147

T. umbilicata, depresso-turbinata, tenuiuscula, striatula, obsolete 4—5-carinata, fulvescenti-albida, fusco radiatim strigata; spira turbinata, apice acutiuscula, cornea; anfr. 5—6 convexi, ultimus subdepressus, circa umbilicum infundibuliformem plerumque carina distinctiore munitus; apertura obliqua, subcircularis; perist. subsimplex, rectum, marginibus callo brevi, subemarginato junctis, dextro antrorsum arcuato, prominente. (Operc. corneum, crassum teste Sow.) — Diam. maj. 9, min. $7\frac{1}{2}$, alt. $5\frac{1}{2}$ mill. Ap. $4\frac{1}{3}$ mill. diam. (Mus. Cuming.)

Cyclostoma parvum Sow. in Proc. Zool. Soc. 1843. p. 66. *)
— — *Sow.* Thes. N. 29. p. 101 t. 31. f. 254. 255.
— — *Chemn.* ed. II. N. 98. p. 100. t. 13. f. 15. 16.
Cyclophorus parvus Gray Catal. Cycloph. p. 23. N. 37.
— — *Pfr.* Consp. N. 118.

β. Minor, fuscus; diam. maj. 5, min. $4\frac{1}{2}$, alt. 3 mill. Ap. $2\frac{1}{3}$ mill. longa.

Habitat in insulis Philippinis Zebu et Panay (H. Cuming).

56. C.? flavus Broderip. 148

T. perforata, conico-globosa, crassa, spiraliter confertim sulcata, flava; spira conoidea, acutiuscula; anfr. $5\frac{1}{2}$ convexi, ultimus ventrosus; umbilicus punctiformis, non pervius; apertura ovalis, superne subangulata; perist. rectum, obtusum, marginibus callo anfractui penultimo adnato junctis, columellari complanato. — Operc. corneum ex Brod. — Diam. maj. 8, min. $6\frac{1}{2}$, alt. 7 mill. Ap. 5 mill. longa. (Coll. Nr. 53.)

Cyclostoma flavum Brod. in Proc. Zool. Soc. 1832. p. 59.
— — *Müll.* Synops. p. 38. **)
— — *Sow.* Thes. N. 55. p. 109. t. 24. f. 70. ***)
— — *Chemn.* ed. II. N. 14. p. 23. t. 3. f. 9—11.

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*) T. suborbiculari, depresso-conoidea, tenui, laevigata, fulvescente, radiatim fusco-strigata; spira brevi, submucronata; anfr. 5 rotundatis, tenerrime spiraliter striatis, obsoletissime 4—5-carinatis; apertura circulari; peritremate simplici, postice subemarginato; umbilico magno; operculo corneo, crasso. (Sow. l. c.)

**) T. subglobosa, flava, crassiuscula; anfr. 5 creberrime fasciato-striatis; striis elevatis; umbilico parvo; operculo corneo. (Müll. l. c.)

***) T. subglobosa, crassiuscula, flava, spira brevi, subpyramidali, anfr. 5 ventricosis, spiraliter sulcatis, sutura distincta; apertura subcirculari, superne acuminata, peritremate interne incrassato, margine labii externi acuto; umbilico mediocri; operculo corneo, tenui. (Sow. l. c.)

Chondropoma flavum Gray Catal. Cycloph. p. 57. N. 7.
Cyclophorus? flavus Pfr. Consp. N. 119.

Habitat in insula Annaa, ubi sub terra ad radices palmarum a mari remotum legit H. Cuming.

Obs. An revera Cyclostomaceis adnumerandus?

149 57. **C.? euomphalus Philippi.**

T. umbilicata, subgloboso-depressa, solida, laevigata, alba, maculis fuscis in anfr. ultimo obsolete biseriatis nebulosa; spira brevis, conoidea, acutiuscula; anfr. 4 convexi, ultimus teres, circa umbilicum angustum angulo spirali duplice munitus: exteriore crenulato, interiore extus prominentia valde conspicua terminato; apertura vix obliqua, subcircularis; perist. crassum, obtusum, superne et latere sinistro angulatum. — Operc.? — Diam. maj. 8, min. 7, alt. 6 mill. (Coll. Philippi.)

Cyclostoma euomphalum Phil. in Zeitschr. f. Mal. 1851. p. 30.
— — *Chemn.* ed. II. N. 338. t. 42. f. 27—30.
Cyclophorus? euomphalus Pfr. Consp. N. 120.

Habitat . . . ?

150 58. **C. margarita Pfr.**

T. perforata, globoso-conica, solidula, laevigata, nitidula, rubello-succinea; spira conica, apice acutiuscula, sanguinea; anfr. 5 convexiusculi, ultimus subrotundatus; apertura parum obliqua, ovalis; perist. interruptum, simplex, rectum, margine columellari perarcuato, subincrassato. — Operc.? — Diam. maj. 7, min. 6, alt. 6 mill. (Mus. Cuming.)

Cyclostoma margarita Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 235. t. 34. f. 9. 10.
Cyclophorus? margarita Pfr. Consp. N. 121. p. 54.

Habitat in insula Rapa Oceani Pacifici.

151 59. **C.? Cytora Gray.**

T. perforata, trochiformis, solidiuscula, lineis spiralibus aequalibus, confertis et rugulis longitudinalibus subreticulata, castanea; spira conica, acutiuscula; anfr. $5\frac{1}{2}$ convexiusculi, ultimus subrotundatus; apertura diagonalis, lunato-circularis; perist. simplex, rectum, marginibus approximatis, callo junctis. — Diam. $2\frac{1}{2}$, alt. 2 mill. (Mus. Brit.)

Cyclophorus Cytora Gray in Proc. Zool. Soc. 1849. p. 67. *)
— ? — *Gray* Cat. Cycloph. p. 23. N. 38.
— — *Pfr.* Consp. N. 77.

Habitat Auckland Novae Seelandiae (Greenwood).

§. 7.

60. C. oculus capri Wood. 152

T. umbilicata, turbinato-depressa, solida, spiraliter confertim striata et carinis 4—5 obtusis angulata, superne albido et castaneo marmorata, infra peripheriam zona lata nigricante, albo-articulata ornata, basi pallida; spira brevis, apice obtusiuscula; anfr. 5—6 convexi, prope suturam planulati; umbilicus latus, perspectivus; apertura subobliqua, fere circularis, intus submargaritacea; perist. incrassatum, reflexum, pallide aurantiacum, margine anfractum penultimum tangente subemarginato. — Operc. normale. — Diam. maj. 52, min. 40, alt. 29 mill. Ap. intus 21 mill. longa. (Coll. Nr. 54.)

Helix oculus capri Wood Ind. t. 32. f. 7.
Cyclostoma oculus capri Gray in Mus. Brit.
— — — *Reeve* Conch. syst. t. 184. f. 11.
— — — *Sow.* Thes. N. 73. p. 115. t. 25. f. 96. **)
— — — *Chemn.* ed. II. N. 18. p. 26. t. 3. f. 5. 6.
— — — *Mouss.* Jav. Moll. p. 52. t. 6. f. 2.
— *Rafflesii Brod.* et *Sow.* in Zool. Journ. V. p. 50. ***)
— *indicum Phil.* Abbild. I. 5. p. 103. t. 1. f. 2. Nec Desh., nec Sow.

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*) Shell minute, trochiform, brown, closely and uniformly spirally striated and slightly concentrically wrinkled; apex subacute; spire conical, nearly as high as broad; whorls convex, the last rounded and convex in front; axis perforated; mouth subcircular; peristome scarcely reflexed, thickened internally; ? operculum horny, of a few rapidly enlarging whorls. — Diam. $^{1}/_{10}$". (Gray l. c.)

**) T. orbiculari, albicante, castaneo variegata et fasciata; spira depressiuscula, apice obtuso; anfr. 4—5 ventricosis, superne spiraliter striatis (striis distantibus, interstitiis obsolete striatis) ultimo maximo, omnibus prope suturam depressis; apertura circulari, peritremate flavicante, simplici, incrassato, reflexo, superne subangulato; umbilico magno et regione umbilicali albicantibus, spiraliter striatis. (Sow. l. c.)

***) T. spira depressiuscula, anfr. 4 rotundatis, superne striatis, carinis 4 ad 6; umbilico magno; apertura orbiculari, peristomate reflexo; long. $1^{3}/_{10}$ poll.; lat. 2 poll. — Sumatra. (Brod. et Sow. l. c.)

Cyclophorus oculus capri Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 122.
— — — *Gray* Catal. Cycloph. p. 20. N. 23.

Habitat in insulis Java, Sumatra.

153 61. **C. semisulcatus Sowerby.**

T. umbilicata, turbinato-depressa, solidula, superne carinis 7—8 obtuse elevatis, basi striis spiralibus confertis notata, albida, superne fusco marmorata, infra peripheriam fascia 1 castanea, saepe deorsum diluta, ornata; spira brevis, subacuminata, obtusiuscula; anfr. 5 convexi, ad suturam depressi, ultimus circa umbilicum latum, infundibuliformem angulatus; apertura obliqua, subcircularis, intus nitida, coerulescenti-alba; perist. subincrassatum, breviter expansum, album, marginibus callo continuo angulatim junctis, columellari reflexiusculo. — Operc. planum, corneum, solidum, margine anfractuum sublamelloso. — Diam. maj. 43, min. 33, alt. 22 mill. Ap. 21 mill. longa. (Coll. Nr. 55.)

Cyclostoma semisulcatum Sow. in Proc. Zool. Soc. 1843. p. 62. *)
— — *Sow.* Thes N. 96. p. 124. t. 25. f. 99.
— — *Chemn.* ed. II. N. 81. p. 86. t. 11. f. 1. 2.
Cyclophorus semisulcatus Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 123.
— — *Gray* Catal. Cycloph. p. 20. N. 24.

Habitat Malacca.

154 62. **C. Woodianus Lea.**

T. umbilicata, orbiculata, depressa, solida, striis spiralibus confertis undique sulcata, superne liris nonnullis elevatioribus cincta, castanea, albido-marmorata, ad suturam fascia lata albo-articulata ornata, ad peripheriam albo-unizonata, basi saturate castanea, circa umbilicum latum, perspectivum pallida; spira brevis, apice subacuminata; anfr. 5 convexi, ad suturam depresso-subcanaliculati; apertura subcircularis, intus coerulescens, albo-unifasciata; perist. incrassatum, album, bre-

*) T. suborbiculari, depressiuscula, tenuiuscula, albicante, fascia angusta mediana fusco-nigricante, postice plerumque brunneo-variegata; spira brevi; anfr. 5 postice spiraliter sulcatis, sulcis distantibus, antice leviter striatis vel laevibus; sutura distincta; apertura fere circulari; peritremate incrassato, subreflexo, postice angulifero; umbilico lato, intus spiraliter striato; operc. corneo, crassiusculo, extus sublamelloso, intus laevi. (Sow. l. c.)

viter expansum, marginibus callo continuo, superne vix angulato junctis. — Operc. corneum, tenue, anfractuum marginibus lamellosis. — Diam. maj. 30, min. 24, alt. 14 mill. Ap. intus 12 mill. longa. (Coll. Nr. 56.)

Cyclostoma Woodiana Lea Trans. Am. phil. Soc. 1841. VII p. 465. t. 12. f. 19. *)

— *luzonicum Sow.* in Proc. Zool. Soc. 1842. p. 80. **)

— — *Sow.* Spec. Conch. f. 133.

— — *Sow.* Thes. N. 70. p. 114. t. 27. f. 136. 137.

— *Gironnieri Souleyet* in Revue zool. 1842. Avr. p. 101. ***)

— — *Soul.* in Voy. Bonite. Moll. t. 30. f. 12—17.

— *Woodianum Chemn.* ed. II. N. 46. p. 53. t. 7. f. 1—3.

Cyclophorus Woodianus Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 126.

— — *Gray* Catal. Cycloph. p. 21. N. 26.

Habitat in insula Luzon (H. Cuming).

63. C. Charpentieri Mousson. 155

T. mediocriter umbilicata. depresso-turbinata, solidiuscula, superne spiraliter confertim striata et carinis 5—6 obtusis elevatis munita, lutescens, corneo-variegata, ad suturam maculis castaneis subquadratis notata, infra carinam periphericam late fusco-fasciata; spira breviter turbinata, obtusula; anfr. $4\frac{1}{2}$ celeriter accrescentes, ultimus subdepressus, basi sublaevigatus; apertura obliqua, subangulato-circularis, intus carnea; perist. continuum, breviter adnatum, breviter reflexum, antrorsum in tubum concentrice striatum productum, rubello-flavidum. — Operc.? — Diam. maj. 28, min. 23, alt. 15 mill. Ap. intus 11 mill. longa. (Coll. Nr. 57.)

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*) T. orbiculata, subdepressa, rufa, albo-maculata et cincta, striata, late et profunde umbilicata; anfr. 5, apice acuminato; labro incrassato, reflexo, albo. — Diam. 1,1, long. 0,6″. (Lea l. c.)

**) T. suborbiculari, albida, castaneo-variegata; spira depressiuscula, obtusa; anfr. 4—5 rotundatis, concinne spiraliter striatis, fascia alba infra suturam fusco-articulata; sutura profunda; apertura circulari; perist. crasso, reflexo; umbilico maximo. (Sow. l. c.)

***) T. orbiculari, umbilicata, conico-depressa, supra albida, maculis rufis, subundatis, confluentibus picta, ad suturam depresso-canaliculata, nigro et albo alternatim variegata, subtus castanea; anfr. 5 convexis, transversim crebre et undulate striatis; apertura rotundata; perist crasso, albo, subreflexo; umbilico dilatato, spirali, profundo. Operc. supra concavo, epidermide vestito, subtus convexo, conico, aurato, in medio apiculato. — Alt. 15, diam. 22 mill. — Luzon. (Soul. l. c.)

Cyclostoma Charpentieri Mouss. Jav. Moll. p. 56. t. 6. f. 3.*)
— — *Mörch* Catal. Conch. p. 8. *(Sharpentieri)* t. I. f. 6.
— *involvulus var. ? Chemn.* ed. II. p. 30. t. 8. f. 10—12.
Cyclophorus Charpentieri Pfr. Consp. N. 127.

Habitat in insula Java.

Obs. Differt a *C. involvulo* forma depressiore, carinis magis elevatis, umbilico majore, apertura parva, etc.; a *C. Woodiano* distinguitur forma magis turbinata, carinis distinctioribus, umbilico minore, apertura magis obliqua, peristomatis limbo interno latere dextro longe, latere sinistro breviter producto.

156 64. **C. appendiculatus Pfr.**

T. umbilicata, depressa, solida, lineis spiralibus, elevatis, confertis (4—5 paulo majoribus) sculpta, albida, fusculo-marmorata, prope suturam canaliculatam maculis magnis, subquadrangularibus, castaneis et supra peripheriam subcarinatam, castaneo-articulatam fascia pallida signata; spira brevissime conoidea, apice cornea, obtusula; anfr. $4^1/_2$ rapide accrescentes, ultimus ad suturam late depressus; umbilicus magnus, perspectivus; apertura obliqua, circularis; perist. continuum, breviter adnatum, album, undique aequaliter expansum, margine sinistro in appendicem linguaeformem, patentem dilatato. — Operc.? — Diam. maj. 34, min. 27, alt. 15 mill. Ap. intus 12 mill. diam. (Mus. Cuming.)

Cyclostoma appendiculatum (Cyclophorus) *Pfr.* in Proc. Zool. Soc. 1851
— — *Chemn.* ed. II. N. 360. t. 45. f. 7. 8.
— *canaliferum var. Sow.* Thes. t. 27. f. 142?
Cyclophorus appendiculatus Pfr. Consp. N. 128. p. 54.

Habitat in insulis Philippinis.

Obs. Facies et structura *C. Woodiani*, peristoma fere *C. lingulati*, sutura *C. canaliferi Sow.*

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*) T. depresso-turbinata, late umbilicata, solidiuscula, sublaevigata, pallide lutescens, maculis lineolisque rufo-castaneis ornata. Spira mediocris, sutura perspicua, subcanaliculata. Anfr. $5^1/_2$ convexi, supra striis minutis, 4—5 distinctioribus cincti, ad suturam obscure maculati; infra laevigata, de linea dorsali maculis striisque transversis, in umbilicum pallidioribus picti. Umbilicus pervius. Apertura circularis, vix adjuncta, intus pallide flavescens; perist. prima aetate subreflexo, crassiusculo, sequente aetate novis marginibus subsolutis superstructo, extus limbum cylindricum, transversim fortiter striatum, margine sinistro contractum exhibente. — Operculum? — Diam. maj. 27,8, min. 22,5, axis 21,4 mill. (Mouss. l. c.)

65. C. Bairdi Pfr. 157

T. late umbilicata, depressa, subdiscoidea, solida, spiraliter confertim striata, fulvo-lutea, strigis crebris angulatis castaneis picta; spira vix elevata, medio subprominula; anfr. $4\frac{1}{2}$ convexiusculi, ultimus subdepressus, peripheria obtusissime angulatus et fascia castanea ornatus; umbilicus apertus, $\frac{1}{3}$ diametri paulo superans; apertura obliqua, subangulato-rotundata, intus alba; perist. subsimplex, continuum, breviter adnatum, expansiusculum, superne angulatim subproductum. — Operc.? — Diam. maj. 26, min. 20, alt. 9 mill. Ap. intus 9 mill. longa et lata. (Mus. Cuming.)

Cyclostoma Bairdi (Cyclophorus) Pfr. in Proc. Zool. Soc. 9 Mart. 1852.
— — *Chemn.* ed. II. Cycl. N. 399. t. 48. f. 17—19.

Habitat in insula Ceylon.

§. 8.

66. C. guttatus Pfr. 158

T. umbilicata, depressa, solida, glabra, nitida, laete castanea, maculis albis subtriangularibus guttata; spira vix elevata, apice fusca, submucronata; anfr. $4\frac{1}{2}$ convexiusculi, celeriter accrescentes, ad suturam impressam striatuli; umbilicus latiusculus, pervius; apertura parum obliqua, circularis, intus albida; perist. subduplex: internum vix distinguendum, externum expansum, superne in linguam brevem, anfractui penultimo adnatam, dilatatum. — Operc.? — Diam. maj. 19, min. 15, alt. 9 mill. Ap. 7 mill. longa. (Mus. Cuming.)

Cyclostoma guttatum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 346. t. 43. f. 15. 16.
Cyclophorus? guttatus Pfr. Consp. N. 129. p. 55.

Habitat . . . ?

§. 9.

67. C. maculosus Sowerby. 159

T. umbilicata, depressa, subdiscoidea, solidula, rugulosa, superne sulcis spiralibus obsoletis nonnullis notata, fulvo-castanea, albido-maculata; spira brevissima, apice submucronata, cornea; anfr. $4\frac{1}{2}$ convexiusculi, ultimus obsolete angulatus, infra medium saturatius castaneus, circa umbilicum pal-

lidus, lineis spiralibus castaneis ornatus; umbilicus latus, perspectivus; apertura obliqua, subcircularis, superne et latere dextro subangulata, intus alba; perist. simplex, rectum, marginibus subincrassatis, angulatim junctis, sinistro expansiusculo. — Operc.? — Diam. maj. 30, min. 23, alt. 13 mill. Ap. oblique 15 mill. longa. (Coll. Nr. 58.)

Cyclostoma maculosum Sow. in Proc. Zool. Soc. 1843. p. 66. *)
— — *Sow.* Thes. N. 65. p. 112. t. 31. f. 256. 257.
— — *Chemn.* ed. II. N. 47. p. 54. t. 7. f. 4—6.
Cyclophorus? maculosus Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 130.
— — *Gray* Catal. Cycloph. p. 22. N. 31.

Habitat . . . ?

160 68. **C. stenostomus Sowerby.**

T. late umbilicata, depressa, subdiscoidea, solida, confertissime ruguloso-striata, castanea, albido vel fulvido maculata et flammata; spira planiuscula; anfr. 4—5 convexiusculi, celeriter accrescentes, ultimus antice subdescendens; umbilicus latus, profundus, $^1/_3$ diametri fere aequans; apertura perobliqua, irregulariter rotundata, superne subangulata, intus coerulescens; perist. obtusum, albidum, duplicatum: externum interruptum, rectum, incrassatum, internum continuum, margine anfractui penultimo adjacente strictiusculo. — Operc. immersum, tenue, corneum, arctispirum, extus concavum. — Diam. maj. 16, min. $12^1/_2$, alt. 6 mill. Ap. oblique 6 mill. longa. (Coll. Nr. 59.)

Cyclostoma stenostoma Sow. Thes. N. 13. p. 95. t. 31. f. 261. **)
— — *Chemn.* ed. II N. 159. p. 149. t. 20. f. 23—25.
Cyclophorus stenostoma Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 131.
— — *Gray* Catal. Cycloph. p. 21. N. 29.

β. Major; diam. maj. 26, min. 21, alt. 9 mill. Ap. $9^1/_2$ mill. longa.

*) T. suborbiculari, depressa, crassiuscula, laevi, castanea, albido-maculosa, spira paululum levata, apice nigricante; anfr. 4 rotundatis, obsolete spiraliter striatis; apertura subcirculari, peritremate subincrassato, subreflexo, postice acuminatiusculo; umbilico maximo, spiraliter castaneo lineato. (Sow. l. c.)

**) T. suborbiculari, depressa, crassa, laevi, castanea, albido-maculosa; spira fere plana; anfr. 4 subrotundatis; apertura fere circulari, postice subangulata, paululum coarctata; peritremate subincrassato; umbilico maximo; operculo corneo, anfr. 6. (Sow. l. c.)

Cyclostoma stenostoma var. Chemn. l. c. t. 20. f. 18. 19.

Habitat in Arabia (Powis), in sylvis cacuminum montium Nilgherries (Jerdon teste Benson); var. β in Cochinchina?

69. C. loxostomus Pfr. 161

T. late umbilicata, depressa, discoidea, solidula, confertim filoso-striata, fusco-fulvâ, maculis pallidioribus conspersa; spira plana, vertice subtili haud prominente; anfr. 5 convexiusculi, sensim accrescentes, ultimus teres, antice dilatatus, non descendens; umbilicus latus, pateraeformis, $^1/_3$ diametri superans; apertura diagonalis, subcircularis, intus margaritacea; perist. continuum, breviter adnatum, rectum, subduplicatum, vix incrassatum. — Operc.? — Diam. maj. $13^2/_3$, min. 11, alt. 4 mill. Ap. oblique 5 mill. longa. (Mus. Cuming.)

Cyclostoma loxostomum (Cyclophorus) *Pfr.* in Proc. Zool. Soc. 1852. 9 Mart.
— — *Chemn.* ed. II. N. 406. t. 49. f. 11—13.

Habitat in insula Ceylon (Lear).

§. 10.

70. C.? purus Forbes. 621

T. latissime umbilicata, depressa, tenuis, lineis confertis elevatis filoso-sculpta, striis incrementi confertissimis subclathrata, unicolor alba; spira vix elevata, vertice subacuminato; anfr. 6 convexiusculi, rapide accrescentes, ultimus latus, subdepressus, basi convexus; apertura obliqua, angulato-circularis; perist. simplex, acutum, marginibus remotis. — Operc.? — Diam. maj. 51, min. 43, alt. 20 mill. (Mus. Cuming.)

Cyclostoma purum Forb. in Proc. Zool. Soc. 1850. p. 56. t. 9. f. 9.*)
— — *Chemn.* ed. II. N. 226. t. 32. f. 14. 15.
Cyclophorus? purus Pfr. Consp. N. 132.

Habitat . . . ?

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*) T. orbiculari, depressa, alba, nitidula, spira elevatiuscula, luteola; anfr. 6 rotundatis, spiraliter sulcatis, sulcis numerosis, transverse striatis; apertura subcirculari, obliqua, peritremate simplici; umbilico maximo; operculo —? — Diam. 48, alt. 17 mill. (Forb. l. c.)

163 **71. C. Cumingi Sowerby.**

T. umbilicata, depressa, subdiscoidea, spiraliter confertim sulcata, albida, epidermide olivaceo-fusca fasciatim cincta vel strigata; spira parum elevata, rubicunda, submucronata; anfr. 5—6 convexiusculi, ultimus subdepressus, medio obsolete angulatus, basi rotundatus, in umbilico latissimo profundo non spiraliter sulcatus; apertura obliqua, subovalis, superne angulata, intus margaritacea; perist. simplex, rectum, marginibus approximatis, callo tenui junctis, columellari perarcuato, subincrassato. — Operc. corneum, tenue, flavidum, arctispirum, margine anfractuum fimbriato-lamellato. — Diam. maj. 49, min. 41, alt. 23 mill. (Mus. Cuming. spec. max. Coll. Nr. 60.)

Cyclostoma Cumingii Sow. in Proc. Zool. Soc. 1832. p. 32. *)
— — *Müll.* Synops. p. 37.
— — *Desh.* in Lam. hist. VIII. p. 367. N. 30.
— — *Sow.* Spec. f. 187—189.
— — *Reeve* Conch. syst. t. 185. f. 19.
— — *Sow.* Thes. N. 54. p. 108. t. 24. f. 68. 69.
— — *Chemn.* ed. II. N. 89. p. 92. t. 12. f. 1—3.
— *striata Lea* Trans. Am. Phil. Soc. V. t. 19. f. 77. Obs. I. Conf. *Fér.* Bull. zool. 1835. p. 101.
Cyclophorus Cumingii Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 133.
— — *Gray* Catal. Cycloph. p. 22. N. 34.

Habitat in insula Tumaco Columbiae occidentalis (H. Cuming).

164 **72. C. alternans Pfr.**

T. umbilicata, conoideo-depressa, tenuiuscula, acute multilirata, liris alternis minoribus, haud nitens, sub epidermide pallide lutescente fugace alba; spira breviter conoideo-elevata, obtusiuscula; sutura subcanaliculata; anfr. 5 convexiusculi, ultimus rotundatus; umbilicus mediocris, conicus; apertura parum obliqua, subcircularis; perist. simplex, rectum, fuscolimbatum, subcontinuum, marginibus ad anfr. penultimum callo nitido junctis. — Operc. membranaceum, planum, cereum,

*) T. orbiculari, subdepressa, albicante, epidermide fusca; spira elevatiuscula, carnea; anfr. 5—6 rotundatis, spiraliter sulcatis; sutura subdecurrente; apertura fere circulari, obliqua, alba, superne subacuminata, peritremate simplici subincrassato; umbilico maximo; operculo corneo, tenui, spirali, anfractibus plurimis, margine fimbriato. — Long. 1$^1/_{10}$, lat. 2 poll. (Sow. l. c.)

arctispirum. — Diam. maj. 20, min. 16, alt. 10 mill. Ap. 9 mill. longa. (Mus. Cuming.)

Cyclostoma alternans Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 324. t 41. f. 30—32.
Cyclophorus alternans Pfr. Consp. N. 134. p. 55.

Habitat in insula Madagascar.

73. C. Bourcieri Pfr. 165

T. late umbilicata, orbiculata, conoidea, solida, subtiliter striata et lineis elevatis spiralibus plus minusve confertis sculpta, epidermide fusco-olivacea vestita; spira breviter conoidea, vertice nudo, subpapillato; anfr. 4½—5 convexi, lente accrescentes, ultimus teres, antice subdescendens; apertura obliqua, subangulato-circularis, intus margaritacea; perist. simplex, rectum, anfractui penultimo breviter adnatum. — Operc. tenuissimum, corneum, arctispirum, extus concavum, intus nitidum, medio umbonatum. — Diam. maj. 23½, min. 18, alt. 11 mill. Ap. 11 mill. longa. (Coll. Nr. 61.)

Cyclostoma Bourcieri Pfr. in Proc. Zool. Soc. 1851.
— — *Chemn.* ed. II. N. 223. t. 32. f. 5—7.
Cyclophorus Bourcieri Pfr. Consp. N. 135. p. 55.

Habitat prope Mindo reipublicae Aequatoris (Bourcier).

74. C. Guayaquilensis Sowerby. 166

T. umbilicata, conoideo-depressa, solida, confertissmei striata et lineis elevatis spiralibus sculpta, flavescens, fasciis angustis castaneis ornata; spira subturbinata, vertice obtusulo; anfr. 5 convexiusculi, sensim accrescentes, ultimus teres, in umbilico mediocri radiatim striatulus; apertura vix obliqua, subcircularis; perist. simplex, rectum, ad anfr. penultimum interruptum. — Operc.? — Diam. maj. 15, min. 12, alt 8 mill. Ap. 7 mill. longa. (Mus. Cuming.)

Cyclostoma Guayaquilense Sow. Thes. Suppl. N. 189. p. 163*. t. 31 B. f. 319.*)
— — *Chemn.* ed. II. N. 335. t. 42. f. 21. 22.

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*) T. subgloboso-depressa, fulvescente, brunneo spiraliter lineata; spira subacuminata, brevi, apice obtusiuscula, rufescente; anfr. 4 rotundatis; sutura distincta; apertura circulari, peritremate tenuiusculo; umbilico magno, laevi, lineis incrementi tenerrimis solummodo conspicuis. (Sow. l. c.)

Cyclophorus Guayaquilensis Pfr. Consp. N. 136.

Habitat Guayaquil (De Lattre).

Obs. Differt a *C. Bourcieri* testa tenuiore, umbilico angustiore, peristomate interrupto, etc.

167 75. **C. psilomitus Pfr.**

T. umbilicata, depresso-conoidea, solidula, virenti-lutea, nitidula, lineis spiralibus subtilissimis filoso-elevatis obscurioribus cincta; spira breviter conoidea, obtusa; sutura subcanaliculata; anfr. 4 convexi, ultimus teres, striis spiralibus in umbilico mediocri, profundo aequaliter continuatis; apertura fere verticalis, subcircularis, intus albida; perist. simplex, acutum, marginibus fere contiguis, callo brevi junctis. — Operc.? — Diam. maj. 15, min. 11, alt. 8 mill. Ap. 7 mill. longa. (Mus. Cuming.)

Cyclostoma psilomitum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 327. t. 41. f. 24. 25.
Cyclophorus psilomitus Pfr. Consp. N. 137. p. 56.

Habitat Venezuela.

Obs. Praecedentibus 2 speciebus luculenter affinis, sed characteribus enumeratis facile distinguendus.

166 76. **C. rufescens Sowerby.**

T. umbilicata, orbiculato-convexiuscula, tenuis, diaphana, rufescens vel albida, lineis argute elevatis, confertis cincta: 3—5 majoribus, nodosis; spira breviter elevata, submucronata; anfr. 5 convexi, angulosi, ultimus circa umbilicum mediocrem, pervium acutius carinatus; apertura subverticalis, circularis; perist. simplex, acutum, superne angulatum, anfractui penultimo breviter adnatum. — Operc. membranaceum, pallide corneum, arctispirum. — Diam. maj. 15, min. 13, alt. 9 mill. Ap. $7^1/_2$ mill. longa. (Coll. Nr. 62.)

Cyclostoma rufescens Sow. in Proc. Zool Soc. 1843. p. 60. *)
— *rufescens Sow* Thes. N. 11. p 94 t. 24. f. 36. 37.
— — *Chemn.* ed. II. N. 110. p. 109. t. 12. f. 16—18.

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*) T. suborbiculari, rufescente; spira brevi; anfr. 4 rotundatis, spiraliter costellatis et striatis, costellis aculeatis; sutura profunda; apertura circulari; peritremate tenui; umbilico magno. (Sow. l. c.)

Cyclophorus rufescens Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 138.
— — *Gray* Catal. Cycloph. p. 23. N. 35.

Habitat in insula Martinique.

77. **C. fornicatus Pfr.** 169

T. umbilicata, sublenticularis, tenuiuscula, lineis elevatis concentricis confertis sculpta, epidermide corneo-virente, vix nitidula induta; spira brevis, fornicata, vertice rubella, obtusula; anfr. 4 vix convexiusculi, celeriter accrescentes, ultimus convexior, medio acute carinatus; umbilicus profundus, $^1/_3$ diametri subaequans; apertura obliqua, ovato-circularis; perist. simplex, rectum, subinterruptum, marginibus approximatis, columellari subpatente. — Operc. normale. — Diam. maj. 9, min. 7, alt. $3^1/_3$ mill. Ap. 4 mill. longa, $3^1/_3$ lata. (Mus. Cuming.)

Cyclostoma fornicatum (Cyclophorus) *Pfr.* in Proc. Zool. Soc. 1852. 9 Mart.
— — *Chemn.* ed. II. N. 405. t. 49. f. 6-8.

Habitat in insulis „Novis Hebridis“.

§. 11.

78. **C. ponderosus Pfr.** 170

T. late umbilicata, conoideo-depressa, crassa, ponderosa, subtiliter et oblique malleato-rugulosa, olivaceo-fuscula; spira breviter conoidea, obtusa; anfr. 5 parum convexi, celeriter accrescentes, ultimus latus, subdepressus, ad peripheriam obsolete funiculato-carinatus; apertura obliqua, angulato-ovalis, intus alba, nitida; perist. crassum, rectum, subcontinuum, superne angulato-dilatatum, margine columellari perarcuato. — Operc. membranaceum, pellucidum, fusculum, arctispirum. — Diam. maj. 36, min. 30, alt. 20 mill. (Mus. Cuming.)

Cyclostoma ponderosum Pfr. in Proc. Zool. Soc 1851. Jul.
— — *Chemn.* ed. II. N. 242. t. 35. f. 12—14.
Cyclophorus ponderosus Pfr. Consp. N. 139. p. 56.

Habitat Guatemala. (*C. stramineum Morelet,* nec Sow.)

79. **C. texturatus Sowerby.** 171

T. *late* umbilicata, depressa, solidula, pliculis longitudinalibus undulatis ramosis et confluentibus foveolata, olivaceo-

fulva; spira brevissime conoidea, apice obtusa; anfr. 5 convexi, rapide accrescentes, ultimus teres; apertura fere verticalis, subcircularis, intus coerulescens; perist. simplex, rectum, continuum, breviter adnatum, superne vix subangulatum, margine supero *fere horizontali*, columellari subincrassato. — Operc. tenue, subcartilagineum, arctispirum, extus concaviusculum. — Diam. maj. 35, min. 28, alt. 16 mill. Ap. 15 mill. diam. (Mus. Cuming.)

Cyclostoma texturatum Sow. Thes. Suppl. N. 182. p. 160*. t. 31 A. f. 303. *)
— — *Chemn.* ed. II. N. 243. t. 35. f. 10. 11.
Cyclophorus texturatus Pfr. Consp. N. 140.

Habitat Guatemala.

172 80. **C. Dysoni Pfr.**

T. umbilicata, conoideo-orbiculata, solida, pliculis confertis undulatis, subconfluentibus sculpta, fusco-olivacea, pallidius strigata et obsolete fasciata; spira conoidea, obtusula; anfr. 4½ convexiusculi, celeriter accrescentes, ultimus rotundatus; umbilicus *mediocris*, conicus; apertura fere verticalis, angulato-subcircularis, intus coerulescens, nitida; perist. simplex, rectum, superne *angulatum*, breviter adnatum, margine dextro *declivi*, columellari subdilatato-patente. — Operc.? — Diam. maj. 27, min. 22, alt. 16 mill. Ap. 14 mill. longa, 13 lata. (Mus. Cuming.)

Cyclostoma Dysoni Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 244. t. 35. f. 5. 6.
Cyclophorus? Dysoni Pfr. Consp. N. 141. p 56.

Habitat Honduras (Dyson).

§. 12.

173 81. **C. annulatus Troschel.**

T. umbilicata, depressissima, subdiscoidea, solidula, ruguloso-striata, sub epidermide tenui, olivaceo-cornea alba, superne obsolete fusco-maculata, infra peripheriam unicingulata; spira

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*) T. depresso-suborbiculari, albida, epidermide crassiuscula olivaceo-brunnea induta; spira brevissima, obtusa; anfr. 5 rotundatis, irregulariter rugulosis seu sulcis irregularibus undulatis circumdatis; sutura distincta; apertura fere circulari, postice prope anfractum ultimum subangulari, intus albicante; peritremate tenui, umbilico maximo. (Sow. l. c.)

plana, vertice subtili vix prominulo; anfr. 4½ convexiusculi, ultimus lente descendens; umbilicus latus, profundus; apertura obliqua, subovali-rotundata; perist. subsimplex, undique vix expansiusculum, marginibus approximatis, infra medium anfractus penultimi callo brevi subangulatim junctis. — Operc. immersum, tenue, corneum, arctispirum, extus concaviusculum. — Diam. maj. 18, min. 15, alt. 6 mill. (Coll. Nr. 63.)

Cyclostoma annulatum Trosch. in Mus. Berol.
— — *Pfr.* in Zeitschr. f. Mal. 1847. p. 150.
— — *Chemn.* ed. II. N. 175. p. 162. t. 22. f. 17—19.
Cyclophorus annulatus Pfr. in Zeitschr. f. Malak. 1847. p. 108. Consp. N. 142.
— — *Gray* Catal. Cycloph. p. 22. N. 32.
β. Major; diam. maj. 23½, min. 19, alt. 8 mill.; ap. oblique 9 mill. longa.
Cyclostoma discus Sow. mss. in Mus. Cuming.
— *annulatum var. Chemn.* l. c. p. 163. t. 29. f. 14. 15.

Habitat in insula Ceylon (Hoffmeister).

82. C. ravidus Benson. † 174

T. aperte umbilicata, subdiscoidea, nitidiuscula, confertim scabre tenuiter radiato-striata, olivaceo-lutea, sub epidermide alba; spira vix elevata, apice planato, obtuso; sutura impressa; anfr. 4 convexiusculi, lente accrescentes, ultimus cylindraceus, antice vix descendens, superne prope suturam sub lente obsolete spiraliter striatus; apertura obliqua, circularis; perist. tenue, rectum, marginibus callo tenui junctis; umbilicus latus, perspectivus. — Operc. tenue, corneum, multispiratum, extus concaviusculum. — Diam. maj. 15, min. 13, axis 7 mill. (B.)

Cyclostoma ravidum Bens. in Ann. and Mag. 2d. ser. VIII. 1851.
Cyclophorus ravidus Pfr. Consp. N. 143.

Habitat ad apices montium Nilgherries Indiae Meridionalis (Jerdon).

83. C.? disculus Pfr. 175

T. umbilicata, depressa, discoidea, solidiuscula, nitida, alabastrina; spira planissima; anfr. vix 4 convexiusculi, ad suturam impressam striati, ultimus teretiusculus, subdepressus, in umbilico lato distinctius striatus, antice brevissime solutus; apertura subverticalis, circularis; perist. continuum, simplex, rectum. — Operc.? — Diam. maj. 14, min. 11, alt. 5 mill. (Mus. Cuming.)

Cyclostoma disculus Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 294. t. 39. f. 11—13.
Cyclophorus? disculus Pfr. Consp. N. 144. p. 56.

Habitat . . . ?

176 84. **C. Phaenotopicus Benson.** †

T. subaperte umbilicata, depressa, subdiscoidea, tenuis, non nitens, striis scabris, acutis, radiatis, elevatis, aliis impressis spiralibus, sub lente vix perspiciendis, prope suturam decussatis, rufo-fusca, strigis angulatis, interruptis picta; spira depressa, apice prominula; sutura impressa; anfr. $4^1/_2$ convexi, sensim accrescentes; apertura circularis; perist. tenue, rectum, marginibus approximatis; umbilicus profundus, perspectivus. — Operc. corneum, tenue, concaviusculum, arctispirale, anfr. 7—8. — Diam. maj. 12, min. 10, alt. 4 mill. (B.)

Cyclostoma Phaenotopicum) Bens.* in Ann. and Mag. 2d. ser. VIII. 1851.
Cyclophorus Phaenotopicus Pfr. Consp. N. 145.

Habitat ad Darjiling, Himalayae Sikkimensis (Benson).

177 85. **C.? Moricandi Pfr.**

T. late umbilicata, turbinato-depressa, solidula, sub lente regulariter filoso-costata, opaca, albida; spira subturbinata, acutiuscula; anfr. $4^1/_2$ convexi, ultimus teres, antice breviter disjunctus; apertura vix obliqua, circularis; perist. simplex, continuum, tenue, rectum. — Operc. (ex Moric.) terminale, concaviusculum, concentrice (?) striatum. — Diam. maj. 6, min. 5, alt. 4 mill. Ap. $2^2/_3$ mill. diam. (Coll. Nr. 64.)

Cyclostoma disjunctum Moric. Mém. 3e suppl. p. 64. t. 5. f. 26—29.**) Nec Math.
— — *Chemn.* ed. II. N. 246. t. 35. f. 1. 2.
— *Moricandi Pfr.* in Zeitschr. f. Malak. 1852. p. 64.
Cyclopoma disjunctum Trosch. in Arch. f. Naturg. 1847. II. p. 381.

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*) Nomen localitatis graece redditum. (Bens.)

**) T. late umbilicata, orbiculato-depressa, crassiuscula, sordide alba; anfr. 4 rotundis, costis elevatis, regularibus, numerosis transversim cinctis, ultimo a praecedentibus disjuncto; sutura profunda; apertura circulari; labro tenui. — Diam. 5—6 mill. (Moric. l. c.)

Cyclophorus? disjunctus Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 146.
— — *Gray* Catal. Cycloph. p. 23. N. 36.

Habitat in Brasilia.

VI. Leptopoma Pfr.

Operculum membranaceum, arctispirum, planum. Testa globoso-turbinata vel conica, anguste umbilicata; peristoma simplex, (rarius duplicatum), reflexum, rarius rectum, marginibus distantibus, interdum callo tenuissimo junctis.

Leptopoma Pfr. in Zeitschr. f. Malak. 1847. p. 47. 108.
— *Gray* Catal. Cycloph. p. 23.
— *Pfr.* in Zeitschr. f. Malak. 1851. p. 144. Consp. p 16.
Cyclostomatis species *Auctt.*

Conspectus specierum.

A. Peristomate reflexo (normales).		
1. Ecarinatae	§. 1.	Nr. 1—6.
2. Carinatae,		
a. globoso-conicae		
α. carina levi	§. 2.	— 7—12.
β. carina acuta	§. 3.	— 13—17.
b. conicae	§. 4.	— 18—25.
B. Peristomate simplice recto . . .	§. 5.	— 26—29.

§. 1.

1. L. vitreum Lesson. 17

T. perforata, globoso-conica, tenuis, oblique striatula, sub lente spiraliter confertim striata, nitida, pellucida, albida vel lutea, unicolor vel strigis, flammis et fasciis fuscis ornata; spira conoidea, acutiuscula; anfr. 5 convexi, celeriter accrescentes, ultimus globosus, angustissime perforatus; apertura obliqua, lunato-circularis; perist. simplex, acutum, breviter expansum, marginibus disjunctis, columellari subdilatato-patente, medio angulatim protractiusculo. — Operc. normale. — Diam. maj. 18, min. $13\frac{1}{2}$, alt. 14 mill. Ap. oblique 10 mill. longa. (Coll. Nr. 65 spec. max.)

Cyclostoma vitrea Less. Voy. de la Coq. p. 346. t. 13. f. 6. *)
— — *Desh.* in Lam. hist. VIII. p. 367. N. 31. **).
— *lutea Quoy* et *Gaim.* Voy. Astrol. II. p. 180. t. 12. f. 11—14. ***) Nec Less.
— *nitidum Sow.* in Proc. Zool. Soc. 1843. p. 60. †)
— — *Sow.* Thes. N. 121. p. 133. t. 29. f. 225—227.
— — *Reeve* Conch. syst. t. 183. f. 2.
— — *Chemn.* ed. II. N. 92. p. 96. t. 16. f. 10.
— *vitreum Chemn.* ed. II. t. 28. f. 16—18. (ex Quoy.)
— — *Mouss.* Jav. Moll. p. 57. t. 6. f. 4.
Leptopoma nitidum et *vitreum Pfr.* in Zeitschr. f. Mal. 1847. p. 108.
— — et — *Gray* Cat. Cycloph. p. 24.
— *vitreum Pfr.* Consp. N. 147.

β. Testa minore, solidiuscula, virenti-albida, unicolore, anfr. 5; diam. maj. 10, min. 8, alt. 8 mill. (Mus. Cuming.)

γ. Testa hyalina unicolore vel pallide lutescente, castaneo-unifasciata et superne flammulata, dimensionibus ut *β*.

Cyclostoma lutea Less. Voy. Coquille p. 345. t. 13. f. 5? ††)
— *nitidum Chemn.* l. c. t. 12. f. 27—29.
Leptopoma luteum Pfr. in Zeitschr. f. Malak. 1847. p. 108.

Habitat in Nova Guinea (Lesson), Nova Hibernia et Buru Moluccarum (Quoy), in insulis Philippinis (H. Cuming), Java (Mousson); var. *β* in montibus Nilgherries Indiae.

Obs. Species ut videtur late dispersa. Quas hic conjunxi species et varietates, ex speciminibus authenticis praeter dimensiones et colores nullo charactere distingui possunt.

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*) T. subconica, orbiculata, umbilicata, glabra, tenuissima, fragillima, vitrea, alba vel lutescente; sutura profunda; spira elata; anfractibus convexis, ultimo ventroso; apertura circulari; peristomate reflexo, dilatato, umbilicum semi-obtegente. — Operc. tenue, rufo-fuscum. (Less. l. c.) — Diam. 15, alt. 11 mill. (ex ic.)

**) T. ventricoso-conica, umbilicata, diaphana, lutea, tenuissime striata; spira acuta, anfract. 6 convexis; apertura circulari, labro lato reflexo albo. — Long. 16, lat. 15 mill. (Desh. l. c.)

***) T. ventricoso-conica, umbilicata, diaphana, luteo-virescente, tenuissime striata; spira acuta; anfractibus quaternis et sesqui; labro lato, reflexo, tantisper interrupto. — Long. 7, diam 6 lin. (Quoy et Gaim. l. c.)

†) T. globoso-conica, tenui, pellucida, laevi, alba, interdum fusco-variegata; spira acuminata; anfr. 5 rotundatis, ultimo maximo, ventricoso; apertura circulari; peritremate reflexo, latere columellari subsinuato; sutura distincta; umbilico parvo; operculo tenui, corneo, spirali. (Sow. l. c.)

††) T. conoidea, subperforata, fragili, pallide luteo vel rosaceo, tenuiter striata; spira brevi, acuta, conica; anfr. ultimo ventroso; apertura suborbiculari, peristomate reflexo, albido. — Operc. tenue, membranaceum, diaphanum. — Long et latit. 5 lin. Habitat Otaheite et aliis insulis. (Less. l. c.)

2. **L. perlucidum Grateloup.** 179

T. anguste umbilicata, globoso-conica, tenuis, concentrice confertissime striata, carneo-albida, lineis virenti-fuscis eleganter circumdata; spira turbinata, acuta; anfr. 5 convexi, ultimus ventrosus; apertura vix obliqua, subcircularis, intus fulvescens; perist. album, tenue, late expansum, marginibus disjunctis, columellari vix dilatato, umbilicum semioccultante. — Operc. membranaceum, pallide corneum, anfr. 7 subaequalibus. — Diam. maj. 18, min. 14, alt. 13 mill. Ap. intus 10 mill. longa. (Coll. Nr. 66.)

Cyclostoma perlucida Grat. Act. Soc. Linn. Bord. XI. p. 442. t. 3. f. 13. *)
— *concinnum Sow.* in Proc. Zool. Soc. 1843. p. 61. **)
— — *Sow.* Thes N. 122. p. 134. t 29. f. 223. 224.
— — *Deless.* Recueil t. 38. f. 14.
— *perlucidum Chemn.* ed. II. N. 11. p. 19. t. 2. f. 8—10. t. 16. f. 8.
Leptopoma perlucidum Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 148.
— — *Gray* Catal. Cycloph. p. 23. N. 1.

Habitat in insulis Philippinis, Bohol, Mindanao, Camiguing (H. Cuming.)

3 **L. ignescens Pfr.** 180

T. perforata, globoso-conica, tenuis, lineis spiralibus subtilissimis confertim sculpta, diaphana, nitida, ignescens; spira turbinata, obtusiuscula; sutura profunda; anfr. $4\frac{1}{2}$ convexi, ultimus basi distinctius sulcatus; apertura obliqua, subcircularis; perist. simplex, expansum, marginibus approximatis, non junctis. — Operc.? — Diam. maj. 14, min. 11, alt. $11\frac{1}{2}$ mill. Ap. intus 7 mill. longa. (Mus. Cuming.)

Cyclostoma ignescens Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 339. t. 42. f. 11. 12.
Leptopoma ignescens Pfr. Consp. N. 149. p. 57.

Habitat in Nova Hibernia.

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*) T. ventricoso-conica, alba, vitreo-pellucida, fragili, longitudinaliter et tenuissime striata; spira exserta, superne acuta; anfractibus 5 rotundatis; apertura circulari; labro acuto, marginato, reflexo. — Alt. 18—20, diam. 16—17 mill. — Manila. — Affinis C. luteae Q. et G. An = C. vitrea Less? (Grat. l. c.)

**) T. globoso-conica, tenui, pellucida, laevi, albida, viridi-fusco spiraliter lineata; spira acuminata; anfr. 5 rotundatis, ultimo maximo, ventricoso; apertura circulari; perist. reflexo, latere columellari subsinuato; sutura distincta; umbilico parvo; operculo tenui, corneo, spirali. (Sow. l. c.)

181 4. **L. bicolor Pfr.**

T. perforata, globoso-turbinata, tenuis, sub lente confertissime spiraliter striata, diaphana, albida, castaneo bifasciata; spira turbinata, obtusula; anfr. 5 convexiusculi, ultimus rotundatus, lineis 3—4 distantibus, vix filoso-elevatis munitus; apertura obliqua, subcircularis; perist. simplex, subaequaliter angulatim expansum, marginibus callo tenuissimo junctis, columellari leviter sinuato. — Operc.? — Diam. maj. 13½, min. 10, alt. 10 mill. Ap. intus 7 mill. longa. (Mus. Cuming.)

Cyclostoma bicolor (Leptopoma) Pfr. in Proc. Zool. Soc. 1852. 9 Mart.
— — *Chemn.* ed. II. Cycl. N. 401. t. 48. f. 25—27.

Habitat . . . ?

182 5. **L. melanostomum Petit.**

T. perforata, globoso-conica, tenuis, laevigata, nitida, subpellucida, alba; spira conica, acuta; anfr. 5½ convexi, infimi lineolis rufescentibus interdum fasciati, ultimus ventrosus, non descendens; apertura parum obliqua, circularis; perist. interruptum, nigrum, margine dextro et basali horizontaliter patentibus, columellari subexciso. — Operc. corneum, pallidum, arctispirum, nucleo centrali. — Diam. maj. 12, min. 9, alt. 9½ mill. (Mus. Cuming.)

Cyclostoma melanostoma Petit in Revue zool. 1841. Oct. p. 308. *)
— — *Petit* in Guérin Mag. 1842. t. 56.
— — *Hombr.* et *Jacq.* Voy. Pol Sud. Moll. t. 12. f. 20—24.
— — *Chemn.* ed. II. N. 189. p. 173. t. 25. f. 12—15. (Ex Guér.)
Leptopoma melanostoma Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 150.
— — *Gray* Catal. Cycloph. p. 24. N. 7.

Habitat in Nova Guinea.

183 6. **L. luteostomum Sowerby.**

T. perforata, globoso-conica, tenuis, lineis spiralibus subelevatis, distantibus cincta, pellucida, alba vel fulvida; spira

*) T. ventricoso-conica, tenuissima, alba, subdiaphana, perforata; anfr. 6 rotundatis, transversim striatis, infimis lineolis rufescentibus, interdum fasciatis; spira subacuta; perist. reflexo, tenui, fusco-nigricante, nitidissimo; operculo cartilagineo, tenuissime 6-spirato. — Diam. 12, alt. 14 mill. (Petit l. c.)

conica, acuta; anfr. 5 convexi, ultimus ventrosus; apertura obliqua, subcircularis; perist. angulatim reflexum, patens, aurantiacum, marginibus approximatis, callo tenui junctis, columellari subangulatim dilatato. — Operc. normale. — Diam. maj. 10, min. 8, alt. 8 mill. Ap. intus $5^{2}/_{3}$ mill. diam. (Coll. Nr. 67.)

Cyclostoma luteostoma Sow. in Proc. Zool. Soc. 1843. p. 62. *)
— — *Sow.* Thes. N. 125. p. 135. t. 30. f. 228. 229.
— *luteostomum Chemn.* ed. II. N. 93. p. 96. t. 12. f. 21—23.
Leptopoma luteostoma Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 151.
— — *Gray* Catal. Cycloph. p. 24. N. 5.

Habitat in insula Guimaras Philippinarum (H. Cuming).

§. 2.

7. **L. immaculatum (Turbo) Chemnitz.** 184

T. perforata, globoso-conica, tenuis, concentrice confertissime lineata, diaphana, albida, saepe castaneo punctata et strigato-maculata; spira conica, acuta; anfr. $5^{1}/_{2}$ convexi, ultimus superne carinis nonnullis obsoletis, ad peripheriam carina 1 validiore munitus, basi convexus; apertura vix obliqua, subcircularis; perist. tenue, undique late expansum, marginibus disjunctis, columellari medio dilatato, umbilicum angustissimum, haud pervium non occultante. — Operc. normale. — Diam. maj. 17, min. 14, alt. 12 mill. Ap. intus 9 mill. longa. (Coll. Nr. 68.)

Turbo immaculatus Chemn. Conch. IX. P. II. p. 57. t. 123. f. 1063. **)
— *marginellus Gmel.* Syst. p. 3602. N. 102.
— *laevis Wood* Suppl. t. 6. f. 5.
Cyclostoma laeve Gray in Wood suppl. p. 36.
— — *Sow.* in Proc. Zool. Soc. 1843. p. 63.

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*) T. globoso-conica, tenui, pellucida, albida, epidermide tenui, cornea induta; spira acuminata; anfr. 5 rotundatis, ultimo magno, ventricoso; apertura subcirculari; peritremate reflexo, aurantiaco, latere columellari subsinuato, prope ultimum anfractum interrupto; sutura distincta; umbilico parvo; operculo tenui, corneo, multispirali. (Sow. l. c.)

**) Turbo immaculatus pellucidus, testa terrestri, laevi, umbilicata, candidissima, subcarinata, anfractibus 6 rotundatis, labro fimbriato, reflexo, apertura rotunda. (Chemn. l. c.)

Cyclostoma laeve Sow. Thes. N. 120. p. 133. t. 29. f. 220—222.*)
— — *A. Adams* et *Reeve* Voy. Samarang. Moll. p. 57. t. 14. f. 3. (c. anim.)
— *immaculatum Sow.* Spec. Conch. Pt. II. Cycl. f. 124.
— — *Sow.* Zool. of Beech. voy. p. 146. t. 38. f. 29.**)
— — *Chemn.* ed. II. N. 13. p. 22. t. 3. f. 7. t. 4. f. 7. t. 7. f. 23. 24. t. 16. f. 9.
— *maculata Lea* Observ. II. p. 68. t. 23. f. 87.***)
— *maculosa Souleyet* in Revue zool. 1842. p. 101. †)
— — *Soul.* in Voy. Bonite. Moll. t. 30. f. 38—41.
— *azaolanum Sow.* in sched. olim.
— — *Jay* Catal. Ed. 1850. p. 250. N. 5812.
— *marginellum Küst.* in Chemn. t. 4. f. 7. Index.
Leptopoma immaculatum Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 152.
— — *Gray* Catal. Cycloph. p. 25. N. 8.

Habitat in insulis Philippinis (H. Cuming); Manado insulae Celebes (Adams).

Obs. Variat praeter colorem carinis magis minusve obsoletis.

185 8. **L. latelimbatum Pfr.**

T. perforata, globoso-conica, tenuis, minute spiraliter striata et lineis obtusis elevatis subaequidistantibus cincta, diaphana, parum nitida, alba, maculis et fasciis pallide fulvis variegata; spira turbinata, acutiuscula; anfr. 5 convexiusculi, rapide accrescentes, ultimus rotundatus, medio linea acute elevata subcarinatus; umbilicus angustus, vix pervius; apertura

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*) T. globoso-conica, tenui, pellucida, albida, spira acuminata; anfr. subrotundatis, ultimo ventricoso; apertura subcirculari; peritremate reflexo, latere columellari sinuato; sutura subobtecta; umbilico parvo; operculo tenui, corneo, spirali. — Testa junior carinata est. (Sow. l. c.)

**) T. anguste umbilicata, globoso-conica, tenui, pellucida, albida, glabra; spira acuminata; anfr. 5 rotundatis, ultimo ventroso; apertura subcirculari; peristomate reflexo, albo. — Luzon (Sow. l. c.)

***) T. suborbiculata, transversim striata, carinata, maculata, diaphana, umbilicata; anfr. 5; spira subbrevi; ultimo anfractu medio carina cincto; labro margine albo, reflexo. — Diam. 0,4, long. 0,5". — Manila: Wood. (Lea l. c.)

†) T. ventricoso-conica, umbilicata, carinata, pellucida, albida, lituris fulvis, creberrimis et maculis castaneis remotis picta; anfr. 5 convexis, ultimo ventricoso, longitudinaliter tenue striato, superioribus laevigatis; apertura circulari; perist. reflexo, albo, superne interrupto, ad umbilicum compresso; umbilico mediocri, profundo; operc. corneo. — Alt. 12, diam. 14 mill. — Luzon. (Soul. l. c.)

obliqua, subcircularis; perist. album, duplex: internum interruptum, breviter porrectum, marginibus callo tenui junctis, externum undique aequaliter dilatatum, angulatim patens, supra perforationem excisum. — Operc.? — Diam. maj. 17, min. 13, alt. 11 mill. Ap. intus oblique 8½ mill. longa. (Mus. Cuming.)

Cyclostoma latelimbatum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 297. t. 40. f. 1. 2.
Leptopoma latelimbatum Pfr. Consp. N. 153. p. 57.

Habitat in insulis Philippinis.

9. L. Massenae Lesson. 186

T. perforata, globoso-conica, tenuiuscula, spiraliter confertim striata, nitida; albida, maculis et lineis rubigineis variegata; spira conica, acutiuscula; sutura profunda; anfr. 5 convexi, ultimus medio carinatus, superne lineis 4 elevatis (in superioribus anfractibus obsoletis) munitus, basi laeviusculus, parum convexus; apertura subobliqua, angulato-circularis; perist. simplex, album, interruptum, rectangule patens, margine columellari infra insertionem emarginato. — Operc. (ex Less.) fuscidulum, tenue, concentricum (?). — Diam. maj. 11, min. 9, alt. 9 mill. Ap. intus 6 mill. longa. (Mus. Cuming.)

Cyclostoma Massenae Less. Voy. Coquille p. 346. t. 13. f. 7.*)
— *multilabris Quoy* et *Gaim.* Voy. Astrol. II. p. 183. t. 12. f. 20—22.**)
— *multilabre Chemn.* ed. II. Cycl. t. 28. f. 20—22. (ex Quoy.)
Leptopoma Massenae Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 154.
— — *Gray* Cat. Cycloph. p. 24. N. 6.

β. Monstrosum, peristomate multiplicato:
Cyclostoma multilabris Lam. Hist. VI. p. 148. N. 25. Ed. Desh. VIII. p. 360. N. 24.***)
— — *Deless.* Recueil t. 29. f. 14.

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*) T. umbilicata, subconica, semiglobosa, glabra, nitida, albida, maculis nonnullis rubigineis et lineis 10—12 saturate purpureis; spira conica, acuta; sutura profunda; anfractibus rotundis, ultimo ventroso; umbilico sinuoso, partim obtecto; apertura subcirculari, aurantia; perist. reflexo, tenui, horizontaliter patente, candido. — Diam 10, alt. 15 mill. ex ic. (Less. l. c.)

**) Diagnosis Lamarckiana.

***) T. ventricoso-conica, perforata, diaphana, cinerea, apice caerulescente; ultimo anfractu striis 5 acutis prominentibus asperato; spira brevi, acutâ; labro margine reflexo, postice marginibus pluribus antiquis subimbricato. — Diam. bas. 5'''. (Lam. l. c.)

Cyclostoma multilabris Chenu Ill. conch. Livr. 73. t. 1. f. 14.
— *multilabre Chemn.* ed. II. N. 195. p. 177. t. 29. f. 4—6. (ex Deless.)
Leptopoma multilabre Pfr. in Zeitschr. f. Mal. 1847. p. 109.
— — *Gray* Catal. Cycloph. p. 27. N. 17.

Habitat in Nova Guinea (Lesson, Quoy), Nova Hollandia (Lamarck).

187 10. **L. sericatum Pfr.**

T. perforata, globoso-conica, tenuis, pellucida, sericea, lineis obliquis subdistantibus sculpta, superne lineis 4—5 elevatis spiralibus munita, hyalino-albida, liris corneis; spira turbinata, acuta, apice nigricans; anfr. 5, superi parum convexi, ultimus inflatus, subcarinatus, infra carinam fascia 1 castanea ornatus, basi liris spiralibus nonnullis obsoletioribus sculptus; umbilicus angustissimus, non pervius; apertura parum obliqua, subemarginato-circularis; perist. simplex, interruptum, tenue, horizontaliter patens, margine columellari medio sublingulato-dilatato. — Operc. normale. — Diam. maj. 12, min. vix 10, alt. 9 mill. Ap. 6 mill. longa. (Coll. Nr. 69.)

Cyclostoma sericatum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 300. t. 40. f. 7. 8.
Leptopoma sericatum Pfr. Consp. N. 155. p. 57.
β. T. minor, anfr. $4^1/_2$, undique violacescenti-fulva, basi pallidior; diam. maj. 10, min. 8, alt. $7^1/_2$ mill.
Cyclostoma sericatum var. Chemn. l. c. t. 40. f. 11 12.

Habitat in insula Borneo (Taylor).

188 11. **L. Panayense Sowerby.**

T. perforata, globoso-conica, tenuissima, sublaevigata, sericina, costis capillaribus spiralibus, distantibus cincta, pallide fuscescens, castaneo-variegata; spira brevis, conoidea, obtusiuscula; anfr. 5 convexiusculi, celeriter accrescentes, ultimus carinatus; apertura subobliqua, fere circularis, intus margaritacea; perist. simplex, acutum, coerulescenti-album, fusco-limbatum, marginibus remotis, dextro et basali arcuatis, angulatim late expansis, columellari brevi, strictiusculo, superne reflexo, basi subauriculato. — Operc. normale. — Diam. 13, alt. 10 mill. Ap. 7, cum perist. 9 mill. longa. (Mus. Cuming.)

Cyclostoma Panayense Sow. in Proc. Zool. Soc. 1843. p. 62.*)
— — *Sow.* Thes. N. 123. p. 134. t. 30. f. 239.
— — *Chemn.* ed. II. N. 162. p. 151. t. 20. f. 28. 29.
Leptopoma Panayense Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 156.
— — *Gray* Catal. Cycloph. p. 25. N. 10.

Habitat in insulis Philippinis Panay et Samar (H. Cuming).

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12. L. perplexum Sowerby. 189

T. umbilicata, conoidea, tenuiuscula, sub lente subtilissime reticulata, carinis aequidistantibus, obsoletis subangulosa, nitidula, albida unicolor vel fasciis et maculis epidermidis luteae variegata; spira brevis, conoidea, acuta; anfr. 5½ convexiusculi, ultimus basi planior; apertura obliqua, truncato-ovalis, intus nitida, alba; perist. calloso-incrassatum, expansum, marginibus distantibus, callo crassiusculo recto junctis, columellari medio dilatato, reflexiusculo. — Operc.? — Diam. maj. 16, min. 13, alt. 12 mill. Ap. c. perist. 10 mill. longa, intus medio 7 lata. (Coll. Nr. 70.)

Cyclostoma perplexum Sow. in Proc. Zool. Soc. 1843. p. 63.**)
— — *Sow.* Thes. N. 127. p. 136. t. 30. f. 243. 244.
— — *Chemn.* ed. II. N. 136. p. 130. t. 16. f. 11. 12.
Leptopoma perplexum Pfr. in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 157.
— — *Gray* Catal. Cycloph. p. 25. N. 12.

Habitat Albulug insulae Luzon (H. Cuming).

Obs. Hoc loco conf. *L. ciliferum Mouss.*

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*) T. globoso-conica, tenuissima, pellucida, laevi fuscescente; spira brevi, obtusiuscula; anfr. 5 spiraliter et distanter substriatis, rotundatis, ultimo antice ad peripheriam carina obsoleta munito; apertura magna, fere circulari; peritremate lato, reflexo, ad ultimum anfractum interrupto, margine interno albo, externo fusco; umbilico parvo; operculo tenui, anfr. 5—6. (Sow. l. c.)

**) T. suborbiculari, subconica, tenui, albida, pallide fusco varie nubeculata; spira brevi; anfr. 5 subrotundatis, laevibus, ultimo ad peripheriam subcarinato, postice lineis levatiusculis distantibus nonnullis munito; sutura indistincta; apertura subcirculari; peritremate crassiusculo, reflexo, ad ultimum anfractum interrupto, latere umbilicali revoluto; umbilico mediocri. (Sow. l. c.)

§. 3.

190 13. **L. acutimarginatum Sowerby.**

T. umbilicata, depresso-turbinata, tenuiuscula, oblique striatula, olivaceo-fusco et albido marmorata et taeniata; spira brevis, conica, acutiuscula; anfr. 5 convexiusculi, ultimus acute carinatus, basi convexior; umbilicus angustus, vix pervius; apertura subcircularis, intus alba, nitida, coloribus perlucentibus; perist. subcontinuum, album vel luteum, undique expansum, margine columellari subincrassato-reflexo. — Operc. normale. — Diam. maj. 29, min. $23^1/_2$, alt. 18 mill. Ap. intus $12^1/_2$ mill. longa. (Coll. Nr. 71.)

Cyclostoma acutimarginatum Sow. in Proc. Zool. Soc. 1842. p. 80. *)
— — *Reeve* Conch. syst. II. t. 183. f. 7.
— — *Sow.* Thes. N. 95. p. 124. t. 27. f. 138. 139.
— — *Chemn.* ed. II. N. 133. p. 128. t. 15. f. 19—22.
Leptopoma acutimarginatum Pfr. in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 158.
— — *Gray* Catal. Cycloph. p. 27. N. 20.

Habitat Catbalonga insulae Samar Philippinarum (H. Cuming).

191 14. **L. helicoides Grateloup.**

T. perforata, trochiformis, tenuis, albida, lineolis fuscis saepe ornata vel castaneo substrigata et marmorata; spira conica, acuta; anfr. 6 planiusculi, obsolete 5—6-carinati, ultimus medio acute carinatus, utrinque convexiusculus, basi laevigatus; umbilicus angustissimus, non pervius; apertura obliqua, ovali-subcircularis, intus submargaritacea; perist. tenue, reflexo-expansum, marginibus disjunctis, columellari subsinuato. — Operc. (ex Sow.) corneum, tenue, marginibus anfractuum lamellosis, levatiusculis. — Diam. maj. 21, min. $17^1/_2$, alt. 16 mill. Ap. 11 mill. longa, 10 lata. (Coll. Nr. 72.)

Cyclostoma helicoides Grat. Act. Soc. Linn. Bord. XI. p. 442. t. 3. f. 14. **)

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*) T. suborbiculari, conica, tenui, laevi, subpellucida, badia, albido-marmorata; spira subacuminata, submammillari; anfr. 4 raptim crescentibus, supra infraque rotundatis, margine carinato, acuto, prope suturam marginemque coloribus articulatis; apertura magna, orbiculari, peritremate reflexo, albo, incrassato, prope ultimum anfractum subinterrupto, superne productiore, minime reflexo; umbilico mediocri, profundo; operculo corneo, multispirali. — Long. 0,9, lat. 1,1″. (Sow. l. c.)

**) T. trochiformi, vix perforata, alba, vitrea, tenui, fragilissima, nitida,

Cyclostoma helicoides Chemn. ed. II. N. 134. p. 129. t. 15. f. 25. 26. t. 16. f. 1—3.
— *Stainforthii Sow.* in Proc. Zool. Soc. 1842. p. 82. *)
— — *Reeve* Conch. syst. t. 183. f. 6.
— — *Sow.* Thes. N. 129. p. 136. t. 29. f. 215. 216. t. 30. f. 217.
Leptopoma helicoides Pfr. in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 159.
— — *Gray* Catal. Cycloph. p. 27. N. 19.

Habitat in insulis Philippinis Ticao, Masbate, Siquijor, Panay (H. Cuming).

15. L. insigne Sowerby. 192

T. perforata, subconoidea, tenuissima, membranacea, sericina, corneo-olivacea; spira conica, acuta; anfr. 5 convexi, summi laevigati, 2 ultimi oblique striati, superne 4-carinati, ultimus maximus, ad peripheriam acute carinatus, basi inflatus, infra peripheriam carinis 2 parum prominentibus cinctus; apertura parum obliqua, lunato-rotundata, intus submargaritacea; perist. simplex, undique breviter reflexum, marginibus distantibus, columellari albido, subdilatato, umbilicum angustissimum semioccultante. — Operc. normale. — Diam. maj. 15, min. 12, alt. 11 mill. (Coll. Nr. 73.)

Cyclostoma insigne Sow. in Proc. Zool. Soc. 1843. p. 62. **)
— — *Sow.* Thes. N. 132. p. 138. t. 30. f. 232.
— — *Chemn.* ed. II. N. 107. p. 107. t. 12. f. 19. 20.

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pellucida, lineolis luteis raris depicta; spira acuta; anfr. 5 convexis, ultimo fortiter angulato vel carinato; apertura circulari; peristomate marginato, subreflexo. — Alt. 15—20, diam. 15—20 mill. — Manila. (Grat. l. c.)

*) T. tenui, albicante, pyramidali, carinata; spira acuminatiuscula; anfr. 5—6, lateribus subventricosis, ultimo longe maximo, margine mediano carinato, lineis spiralibus fuscis 4—6 ornato; sutura subobsoleta; apertura magna, suborbiculari, latere columellari rectiusculo; peritremate albo, subincrassato, reflexo, supra anfractum penultimum subinterrupto; umbilico mediocri. — Long. 0,7, lat. 0,8″. (Sow. l. c.)

**) T subglobosa, subconoidea, praetenui, cornea, pellucida, viridescente fusca, spira acuminatiuscula; anfr. 5, primis rotundatis, laevibus, 2 ultimis tenerrime transversim striatis, margine acuto carinato, postice subplanulatis, 5—7-carinatis, ultimo maximo, ante carinam subobsolete 2—3-carinato; apertura magna, subcirculari; peritremate tenui, reflexo, intus albo, ultimo anfractu modificato; umbilico exiguo; operculo tenui, corneo. (Sow. l. c.)

Leptopoma insigne Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 160.
— — *Gray* Catal Cycloph. p. 25. N. 9.

Habitat Calapan insulae Mindoro (H. Cuming).

Obs. Hoc loco conf. *L. Birmanum Pfr.*

193 16. **L. ciliatum Sowerby.**

T. mediocriter umbilicata, depresso-turbinata, tenuiuscula, striatula, castanea, fulvo strigata et maculata; spira conoidea, apice acuta; anfr. 5 convexiusculi, ultimus medio carinatus, pilorum confertorum serie 1 ciliatus, basi planior; apertura obliqua, subcircularis, intus albida; perist. simplex, expansiusculum, marginibus disjunctis, columellari breviter reflexo. — Operc. normale. — Diam. 12, alt. 8 mill. Ap. 6 mill. longa et lata. (Mus. Cuming.)

Cyclostoma ciliatum Sow. in Proc. Zool. Soc. 1843. p. 65.*)
— — *Sow.* Thes. N. 102. p. 127. t. 30. f. 237. 238.
— — *Chemn.* ed. II. N. 161. p. 150. t. 20. f. 26. 27.
Leptopoma ciliatum Pfr. in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 161.
— — *Gray* Catal. Cycloph. p. 25. N. 11.

Habitat in provincia „South Camarinas“ insulae Luzon (H. Cuming).

194 17. **L. ciliferum Mousson.** †

T. turbinato-conica, umbilicata, subcarinata, tenuis, transversim striata, rufo-fusca; spira valde acuminata, sutura perspicua; anfr. 6, utrinque planiusculi, supra striis 5 elevatis cincti, ultimus subinflatus, carina evanescente, striis incrementi transversis squamulosis, in carina cilio elongato productis, subtus convexiusculus, striis minutis elevatis, ad umbilicum remotis ornatus; apertura subcircularis, supra angulosa, margine duplicato, externo submembranaceo, reflexo, interno recto. — Operc. arctispirum, corneum. — Diam. maj. 11, min. 9, axis 9,4 mill. — Rat. anfr. = 2:3. Rat. ap. = 1:1. (Mouss.)

*) T. suborbiculari, conoidea, tenuiuscula, laevigata, fulvescente, fusco radiatim strigata, spira brevi, submucronata; apice acuminatiusculo; anfr. 5 subrotundatis, ultimo magno, margine carinato (carina epidermide ciliata); apertura circulari, peritremate reflexo, postice emarginato; umbilico magno; operculo tenui, corneo, multispirali. (Sow. l. c.)

Cyclostoma ciliferum Mouss. Jav. Moll. p. 56. t. 7. f. 3.
Leptopoma ciliferum Pfr. Consp. N. 162.

Habitat in insula Java.

Obs. „Peraffine *C. ciliato Sow.*"

§. 4.

18. **L. undatum Metcalfe.** 195

T. angustissime perforata, globoso-conica, tenuis, concentrice subtilissime striata, diaphana, albida, strigis undatis fusculis irregulariter picta; spira elevato-conica, acutiuscula; anfr. 5½ vix convexiusculi, ultimus magnus, infra medium acute carinatus, utrinque convexus; apertura diagonalis, ovali-rotundata; perist. tenue, marginibus disjunctis, dextro late angulatim expanso, columellari breviter reflexo. — Operc.? — Diam. maj. 15, min. 11½, alt. 12 mill. (Mus. Metcalf.)

Cyclostoma undatum Metc. in Proc. Zool. Soc. 1851.
Leptopoma undatum Pfr. Consp. N. 163.

Habitat in insula Borneo.

19. **L. fibula Sowerby.** 196

T. perforata, trochiformis, tenuis, striatula, oblique malleata, alba unicolor vel strigis fulminantibus corneis ornata; spira conica, acuta; anfr. 5—6 planiusculi, lineis elevatis inaequalibus cincti, ultimus convexiusculus, basi distinctius carinatus; umbilicus angustus, semiobtectus; apertura ampla, perobliqua, truncato-ovalis; perist. undique expansum, marginibus distantibus, callo tenui junctis, dextro strictiusculo, basali leviter arcuato, columellari subverticali, dilatato-reflexo. — Operc. normale. — Diam. maj. 19, min. 15, alt. 16 mill. Ap. intus 10 mill. longa, 8 lata. (Coll, Nr. 74.)

Cyclostoma fibula Sow. in Proc. Zool. Soc. 1843. p. 62. *)
— — *Sow.* Thes. N. 126. p. 135. t. 30. f. 240—242.

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*) T. suborbiculari, conica, cinerascenti-fusca vel albida, nonnunquam fusco angulatim strigata; spira acuminatiuscula; anfr 5—6 laevibus, lineis spiralibus nonnullis elevatiusculis, ultima magna, antice obtuse carinata, ante peripheriam subplanulata; apertura subobliqua, rotundato-subquadrata; peritremate reflexo, supra ultimum anfractum late interrupto, latere umbilicali rotundato, revoluto; umbilico parvo, angusto; operculo tenui, corneo, anfr. 6—7. (Sow. l. c.)

Cyclostoma fibula Chemn. ed. II. N. 135. p. 130. t. 15. f. 23. 24. t. 16. f 4.
— *fibulum Jay* Catal. 1850. p. 255. n. 5864.
Leptopoma fibula Pfr. in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 164.
— — *Gray* Catal Cycloph. p. 26. N. 13.

Habitat in insula Luzon (H. Cuming).

197 20. **L. goniostomum Sowerby.**

T. perforata, conoidea, tenuis, lineis concentricis nonnullis vix elevatis cincta, pellucida, pallide cornea, fusco varie strigata et tessellata; spira conica, acutiuscula; anfr. 6 vix convexiusculi, ultimus acute carinatus, utrinque paulo convexior; apertura diagonalis, subtriangulari-ovalis, intus submargaritacea; perist. tenue, breviter expansum, marginibus disjunctis, dextro strictiusculo, columellari breviter dilatato, umbilicum angustissimum non tegente, basali arcuato. — Operc. membranaceum, planum, anfr. 8 subaequalibus, extus margine subelevatis. — Diam. maj. 17, min. 15, alt. $13^1/_2$ mill. Apert. long. verticalis 9 mill. (Coll. Nr. 75.)

Cyclostoma goniostoma Sow. in Proc. Zool. Soc. 1843. p. 64.*)
— — *Reeve* Conch. syst. t. 183. f. 3.
— — *Sow.* Thes. N. 131. p. 137. t. 30. f. 233. 234.
— — *Chemn.* ed. II. N. 10. p. 18. t. 2. f. 5—7. t. 16. f. 5.
Leptopoma goniostoma Pfr. in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 165.
— — *Gray* Catal. Cycloph. p. 26. N. 14.

Habitat Cagayan provinciae Misamis insulae Mindanao (H. Cuming).

198 21. **L. pileus Sowerby.**

T. perforata, conica, tenuis, albida, interdum fusco pallidissime nubeculata; spira pyramidata, acuta; anfr. 6 planulati, ultimus acute carinatus, basi convexiusculus; apertura perobliqua, ovalis, ad carinam subangulata; perist. breviter expansum, intus albo-callosum, marginibus disjunctis, columellari subdi-

*) T. suborbiculari, conoidea, margine carinato, tenui, subpellucida, laevi, albida, fusco varie strigata; spira acuminata, apice nigricante, obtusiuscula; anfr. $5^1/_2$ planulatis, ultimo subventricoso, obsolete 2—3-carinatis, margine acuto, antice subplanulato; apertura rotundato-subtrigona, antice subrotundata, postice extusque angulata; peritremate tenui, angusto, reflexo; umbilico parvo. (Sow. l. c.)

latato, umbilicum angustum semitegente. — Operc. praecedentis. — Diam. maj. 15, min. 13½, alt. 15 mill. Ap. intus 8 mill. longa, 6 lata. (Coll. Nr. 76.)

Cyclostoma pileus *Sow.* in Proc. Zool. Soc. 1843. p. 31. *)
— — *Sow.* Thes. N. 128. p. 136. t. 29. f 196 197.
— — *Chemn.* ed. II. N. 9. p. 18. t 2. f. 3 4.
— — *Desh.* Traité élém. Conch. t. 82. f. 9. 10.
Leptopoma pileus *Pfr.* in Zeitschr. f Mal. 1847. p. 109. Consp. N. 166.
— — *Gray* Catal. Cycloph. p. 26. N. 15.

Habitat in provincia Ilocos insulae Luzon (H. Cuming).

22. **L. atricapillum Sowerby.** 199

T. perforata, globoso-pyramidata, tenuis, diaphana, albida, fusco varie strigata et ad suturam maculata; spira pyramidata, apice acuta, nigra; anfr. 6 convexi, carinis pluribus magis minusve obsoletis cincti, ultimus infra carinam maximam convexiusculus, sublaevigatus; apertura obliqua, lunato-subcircularis, intus nitide alba; perist. tenue, expansum, marginibus disjunctis, columellari subsinuato, superne vix dilatato, umbilicum angustissimum semioccultante. - Operc. normale. — Diam. maj. 12⅔, min. 11, alt. 11 mill. Ap. diam. vertic. 8½ mill. (Coll. Nr. 77.)

Cyclostoma atricapillum *Sow.* in Proc. Zool. Soc. 1843. p. 64. **)
— — *Sow.* Thes. N. 130. p. 137. t 30. f. 230. 231.
— — *Chemn.* ed II. N. 12. p. 20 t. 2. f. 11. 12. t. 16. f. 6. 7.
Leptopoma atricapillum *Pfr.* in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 167.
— — *Gray* Catal. Cycloph. p. 26. N. 16.

Habitat Calapan insulae Mindoro (H. Cuming).

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*) T. conica, tenui, albida, fusco pallidissime nubeculata; spira subacuminata; anfr. 5 planulatis, antice carinatis; apertura rotundato-subtrigona, extus angulata; peritremate albo, reflexo, labiis postice disjunctis; umbilico parvo. — Long. 0,7, lat. 0,6″. (Sow. l. c.)

**) T globoso-pyramidali, tenui, nitidula, albicante, varie fusco strigata, apice nigro; anfr. 5 subrotundatis, plus minusve obsolete spiraliter carinatis; sutura distincta; apertura rotundata, superne subacuminata; peritremate acuto, reflexo, latere umbilicali subsinuato, ultimi anfractus interrupto; umbilico parvo; operculo corneo, tenui. (Sow. l. c.)

200 23. **L. regulare Pfr.**

T. angustissime perforata, conico-globosa; tenuis, liris approximatis superne aequalibus sculpta, interstitiis spiraliter confertim striata, diaphana, albida, maculis fulvis regulariter tessellata; spira turbinata, apice acuta, pallide cornea; anfr. 5½ convexiusculi, ultimus convexior, infra liram periphericam inflatus, obsoletius liratus; apertura obliqua, lunato-circularis; perist. interruptum, tenue, album, breviter patens, margine columellari basi subangulatim dilatato. -- Operc.? — Diam. maj. 12½, min. 10, alt. 10 mill. Ap. 6½ mill. longa. (Mus. Cuming.)

Cyclostoma regulare Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed II. N. 298. t. 40. f. 3. 4
Leptopoma regulare Pfr. Consp. N. 168. p. 58.

Habitat in insulis Philippinis.

Obs. Peraffine *L. atricapillo Sow.*; differt spira breviore, liris regularibus, umbilico angustiore, etc.

201 24. **L. acuminatum Sowerby.**

T. perforata, turrito-conica, tenuiuscula, oblique striatula, diaphana, nitida, albicans; spira elongata, acuminata, apice fuscula; anfr. 6½ convexiusculi, ultimus rotundatus, infra medium carinatus; apertura perobliqua, truncato-ovalis; perist. acutum, expansum, marginibus disjunctis, columellari superne subdilatato, reflexiusculo, basi angulatim subincrassato. — Operc.? — Diam. maj. 12, min. 10, alt. 13 mill. Ap. 7 mill. longa. (Mus. Cuming. et Gruner.)

Cyclostoma acuminatum Sow. in Proc. Zool. Soc. 1843. p. 65. *)
— — *Sow.* Thes. N. 133. p. 138. t. 30. f. 235.
— — *Chemn.* ed. II N. 104. p. 105. t. 13. f. 11. 12.
Leptopoma acuminatum Pfr. in Zeitschr. f. Mal. 1847. p. 108. Consp. N. 169.
— — *Gray* Catal. Cycloph. p. 27. N. 18.

Habitat S. Juan insulae Luzon (H. Cuming).

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*) T. subglobosa, pyramidali, tenui, laevi, pellucida, albicante, spira acuminata, apice acutiusculo, fuscescente; anfr. 6 rotundatis, substriatis, ultimo magno, carina ad peripheriam obsoletiuscula munito, ante carinam planulatiusculo; apertura subcirculari, postice subacuminata; peritremate tenui, reflexo, ad ultimum anfractum interrupto, latere umbilicali subsinuato; umbilico parvo. (Sow. l. c.)

25. **L. elatum Pfr.** 202

T. umbilicata, conica, tenuiuscula, oblique striata, lineis spiralibus, distantibus, elevatis sub lente munita, vix diaphana, albida; spira conica, acutiuscula; anfr. 5½ parum convexi, ultimus convexior, subacute carinatus, basi confertius reticulatus; umbilicus angustissimus, non pervius; apertura diagonalis, truncato-ovalis; perist. simplex, marginibus distantibus, aequilatis, angulatim patentibus, columellari subangustato. — Operc.? — Diam. maj. 11½, min. 10, alt. 10½ mill. Ap. intus 6 mill. longa. (Mus. Cuming.)

Cyclostoma elatum Pfr. in Proc. Zool. Soc 1851.
— — *Chemn.* ed. II. N. 226a. t. 32. f. 16. 17.
Leptopoma elatum Pfr. Consp. N. 170. p. 58.

Habitat in insula Ceylon.

§. 5.

26. **L.? tenebricosum A. Adams et Reeve.** 203

T. anguste umbilicata, globoso-conica, substriata, tenuis, subpellucida, fusca, saturatius strigata et variegata; spira turbinata, obtusiuscula; anfr. 4 perconvexi, ultimus rotundatus, ad peripheriam anguste luteo-fasciatus; apertura parum obliqua, subcircularis, intus coerulescenti-nitida; perist. simplex, rectum, interruptum, margine columellari subreflexo. Operc.? — Diam. maj. 14, min. 12, alt. 12 mill. (Mus. Cuming.)

Cyclostoma tenebricosum A. Adams et *Reeve* Voy. Samarang. Moll. p. 57. t. 14. f. 6. *)
— — *Chemn.* ed II. N. 232. t. 33. f. 12. 13.
Leptopoma tenebricosum Pfr. Consp. N. 171.

Habitat Balambangan insulae Borneo, in foliis Pandani.

27. **L. Birmanum Pfr.** 204

T. perforata, globoso-conica, tenuis, acute carinata, oblique striata, lineis spiralibus obsoletissimis sculpta, parum nitida, diaphana, fusco-lutea, strigis latis angulatis et fasciis interruptis castaneis ornata; spira turbinata, obtusula; anfr.

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*) T. globoso-conica, subpellucida, fusca, intense fusco variegata, fascia pallida circumcincta, spira acuminata, apice obtusa, anfractibus 4 rotundatis, ultimo subventricoso, apertura subcirculari, peritremate prope ultimum anfractum interrupto, umbilico parvo. (Ad et Rv. l. c.)

4½ convexiusculi, ultimus basi tumidus; apertura parum obliqua, subtetragona, intus coerulescens, margaritacea; perist. simplex, acutum, marginibus remotis, rectis (an serius reflexis?). — Operc. immersum, membranaceum, arctispirum, luteocorneum. — Diam. maj. 14½, min. 12, alt. 10 mill. Ap. verticaliter 8½ mill. longa, 7½ lata. (Coll. Nr. 78. An adult.?)

Cyclostoma Birmanum Pfr. in Chemn. ed. II. Cycl. N. 385. t. 47. f. 4—7.

Leptopoma Birmanum Pfr. Consp. N. 172. p. 58.

Habitat in imperio Birmano*(Th. Philippi).

205 28. **L. halophilum Benson.**

T. umbilicata, globoso-conica, tenuis, striatula, parum nitida, fulvida, castaneo plerumque anguste fasciata; spira conica, acutiuscula; anfr. 5 rotundati, ultimus non descendens; umbilicus angustus, non pervius; apertura parum obliqua, subcircularis; perist. simplex, rectum, breviter interruptum, margine columellari non reflexo. — Operc. membranaceum, arctispirum, pallide lutescens. — Diam. maj. 6—7, min. 4⅔—6, alt. 4—6 mill. (Coll. Nr. 79.)

Cyclostoma halophilum Bens. in Ann. and Mag. 2d. ser. VII. p. 265.
— — *Chemn.* ed. II. N. 220. t. 31. f. 29—31.

Leptopoma halophilum Pfr. Consp. N. 173.

Habitat in insula Ceylon; Point de Galle (Benson), Colombo (Templeman).

206 29. **L.? minutissimum Sowerby.**

T. obtecte perforata, globoso-conica, tenuis, minutissime oblique striata, diaphana, fulvida, albido variegata; spira elevata, apice acutiuscula, nigrescens; anfr. 3½ convexi, ultimus basi subplanulatus; apertura lunato-rotundata; perist. simplex, acutum, marginibus disjunctis, columellari in laminam latam, reflexam, locum umbilici prorsus tegentem, adnatam dilatato. — Operc. tenue, pallide corneum. — Diam. 1, alt. 1 mill. (Mus. Cuming. et Anton.)

Cyclostoma minutissimum Sow. in Proc. Zool. Soc. 1832. p. 32.*)
— — *Müller* Synops. p. 37.

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*) T. globoso-pyramidali, fulva, apice nigro; anfr. 3 rotundatis; sutura profunda; apertura circulari; peritremate acuto; umbilico nullo; operculo corneo. (Sow. l. c.)

Cyclostoma minutissimum Sow. Thes. N. 33. p. 102 t. 30. f. 251.
Hydrocena? minutissima Pfr. in Zeitschr. f. Mal. 1847. p. 112.
Realia minutissima Gray Catal. Cycloph. p. 63. N. 3.
Leptopoma? minutissimum Pfr. Consp. N. 174.

Habitat in insula Pitcairn (H. Cuming).

VII. Alycaeus Gray.

Operculum circulare, subtestaceum, obsolete multispirum. Testa conica vel depressa, spira regulari, anfractu ultimo distorto, compresso, pone aperturam valde contracto, strangulato; peristoma regulariter reflexum.

Alycaeus Gray Catal. Brit. Mus. Cycloph. p. 27.
— *Pfr.* in Zeitschr. f. Malak. 1851. p. 147. Consp. p. 19.
Cyclophori spec. *Pfr.* in Zeitschr. f. Mal. 1847. p. 108.
Cyclostomatis spec. *Eyd.*, *Sow.*, *Hutt.*, *Benson.*

1. **A. gibbus Férussac.** 207

T. umbilicata, irregulariter conico-inflata, tenuiuscula, longitudinaliter confertim costulato-striata, carneo-cinerascens; spira regulariter elongato-conica, apice aurantiaca vel nigricans, obtusiuscula; sutura profunda, simplex; anfr. 6 convexissimi, ultimus latere gibboso-inflatus, prope aperturam constrictus, antice angustior; umbilicus excentricus, angustissimus, vix pervius; apertura obliqua, subcircularis; perist. duplex: internum breviter porrectum, externum breviter expansum, juxta umbilicum emarginatum. — Operc. albidum, partem contractam anfractus ultimi perfecte claudens. — Diam. maj. 11, min. 8, alt. 8 mill. Ap. intus 4 mill. longa. (Coll. Nr. 80.)

Cyclostoma gibbum Féruss. Mus.
— — *Eydoux* in Guérin Mag. 1838. t. 117. f. 1.*)

*) Cette petite espèce se distingue parfaitement de ses congénères par sa forme trochiforme, et principalement par son dernier tour, qui semble difforme. Elle est élargie à sa base, pointue au sommet, formée de six tours arrondis, surbaissés et turriculés, couverts de stries longitudinales très fines; ces tours sont séparés par une suture linéaire et enfoncée. Le dernier est beaucoup plus grand que tous les autres, plus large que haut; il est percé à la base d'un petit ombilic étroit et peu profond; l'ouverture est circulaire, presque détachée de l'avant-dernier tour; elle est entourée d'un péristome mince, tranchant, étalé et légèrement renversé en dehors. La coloration extérieure est uniformément d'un grisâtre clair. L'opercule est arrondi, membraneux, non multispiré. (Eyd. p. 6.)

Cyclostoma gibbum Sow. Thes. N. 135. p. 139. t. 30. f. 247. 248.*)
— — *Chemn* ed. II N. 102 p. 104. t. 17. f 4—6.
Cyclophorus gibbus Pfr. in Zeitschr. f. Mal. 1847. p. 108.
Alycaeus gibbus Gray Catal. Cycloph p. 28. N 1.
— — *Pfr.* Consp. N. 175.

Habitat ad Touranne Cochinchinae (Eydoux).

208 2. **A. strangulatus Hutton.**

T. late umbilicata, depressa, subdiscoidea, tenuis, subtilissime costulato-striata, corneo-hyalina; spira vix elevata, obtusiuscula; anfr. 4 convexi, ultimus latere inflatus, prope aperturam strangulatus et canalem brevem, reversum, fornicatim tectum, suturae incumbentem emittens, antice angustatus; apertura obliqua, circularis; perist. simplex, album, subincrassato-expansiusculum, marginibus approximatis, callo junctis. — Operc. immersum, cereum, anfractibus subdistinctis. — Diam. maj. $4\frac{1}{2}$, min. 4, alt. $2\frac{2}{3}$ mill. Ap. $1\frac{1}{3}$ mill. diam. (Coll. Nr. 81.)

Cyclostoma strangulatum Hutton mss teste v. d. Busch.
— — *Pfr.* in Zeitschr. f. Mal. 1846. p. 86.
— — *Chemn.* ed. II. N. 103. p. 104. t. 17. f. 7. 8. t. 38. f. 35.
Cyclophorus strangulatus Pfr. in Zeitschr. f. Mal. 1847. p. 108.
Alycaeus strangulatus Gray Catal. Cycloph. p. 28. N. 2.
— — *Pfr.* Consp. N. 176.

Habitat Landour Indiae.

209 3. **A. constrictus Benson.** †

T. perforata, ovato-conica, glabra, costis angustis, obliquis distantibus munita, translucens, albida vel rufula; spira elongato-conica, apice obtuso, sutura valde impressa; anfr. 4 rotundati, superiores glabri, sequentes remote costulati, ultimus mox confertissime costulato-striatus, pone aperturam strangulatus anticeque late constrictus; apertura circularis, verticalis, $\frac{3}{8}$ longitudinis aequans; perist. undique reflexum. —

*) T. suborbiculari, subpyramidali, tenui, subdistorta, cinerascente, spira mediocri, obtusa, apice rufescente, anfr. 5 rotundatis, transversim striatis, ultimi dorso inflato, demum coarctato et quasi strangulato; apertura circulari, margine duplicato, umbilicum versus subsinuato, peritremate latiusculo, reflexo, acuto, umbilicum versus angustiori; umbilico mediocri. Operc. corneum. (Sow. l. c.)

Operc. testaceum, multispiratum, sutura inconspicua. — Diam. 2, alt. 3½ mill. (B.)

Cyclostoma constrictum Bens. in Ann. and Mag. 2d. ser. VIII. 1851. *)
Alycaeus constrictus Pfr. Consp. N 177.

Habitat ad Darjiling Himalayae Sikkimensis.

VIII. Diplommatina Benson.

Operculum subtestaceum, tenue, anfractibus paucis, extus lamella tenui, prominente marginatis. Testa vix rimata, tenuis, subovata; apertura subcircularis; peristoma interruptum, expansum.

Diplommatina Bens. in Ann. and Mag 1849. Sept. p. 193. **)
— *Gray* Catal. Cycloph. p. 54.
— *Pfr.* in Zeitschr. f. Malak. 1851. p. 147. Consp. p. 19.
Carychium (spec.) *Hutton* mss.
Bulimus (spec.) *Pfeiffer* olim.
Cyclostoma (spec.) *Sowerby.*

1. D.? Sowerbyi Pfr. 210

T. subimperforata, ovato-oblonga, tenuissima, laevigata, nitida, lutescenti-hyalina; spira ovata, apice obtusa; anfr. 5 turgidi, supremi costulati, penultimus latissimus; apertura verticalis, subcircularis; perist. album, breviter expansum, marginibus fere contiguis, columellari medio angulatim dilatato. — Operc.? — Long. 5⅔, diam. medio 3⅓ mill. Ap. 2 mill. longa. (Coll. Nr. 82.)

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*) This shell has apparently an affinity with the Philippine *C. minus Sowerby*, but differs in its more tapering form, smaller size, perforation, diverse sculpture, and in the strangulation of the last whorl behind the aperture, in which feature it exhibits an approach to the more shortened *C. gibbum Fér.* from Turon in Cochinchina, and to the depressed *C. strangulatum Hutton,* so abundant in the more western portion of the Himalaya. (Bens. l. c.)

**) Cl. Benson operculum non observavit, quod tamen in copiosis Musaei Britannici speciminibus adest, et ideo genus familiae *Carychiadarum* adnumerat. Animal characteribus externis (sc. positione oculorum) a Cyclostomaceis non discrepat, quamobrem praecedente Cl. Gray genus hic recepi, incluso dubioso *C. minore Sow.*

Cyclostoma minus Sow. in Proc. Zool. Soc. 1843. p. 65. *)
— — *Sow.* Thes. N. 175 p 153. t 30. f. 249. (valde auct.)
— — *Chemn.* ed. II. N. 101. p. 103. t. 17. f. 9—11.
Diplommatina? minus Gray Catal. Cycloph. p. 55.
— *? minor Pfr.* Consp N. 178.

Habitat in insulis Philippinis Panay et Zebu (H. Cuming).

Obs Giganti inter hujus generis species nomen antiquum minime congruit.

211 2 **D. folliculus (Bulimus) Pfr.**

T. breviter rimata, ovato-acuminata, tenuis, distincte et oblique costata, pallide fuscescenti-albida; spira conica, acutiuscula; anfr. 7 convexi, ultimus angustior, antice subascendens, $^1/_3$ longitudinis vix aequans; apertura subverticalis, subcircularis; perist. duplex: externum breviter expansum, marginibus approximatis, callo junctis, dextro arcuato, columellari dilatato, patente. — Operc. normale. — Long. $3^1/_2$, diam. medio 2 mill. Ap. long. 1 mill. vix superans. (Coll. Nr. 83.)

Carychium costatum Hutt. mss.
Bulimus folliculus Pfr. Symb. Helic. III. p 83.
— — *Pfr.* Monogr. Helic. II. p. 81. N. 208.
— — *Reeve* Conch ic. N. 644. t. 87.
Diplommatina folliculus Bens. in Ann. and Mag. 1849. Sept. p. 193.
— — *Gray* Catal. Cycloph. p. 54. N. 1.
— — *Pfr.* Consp. N. 179.
— — *Chemn.* ed. II. t. 48. f. 32. 33.

Habitat in India; Simla prope Sutlej (Hutton), Landour (Boys, Benson).

212 3. **D. costulata (Carychium) Hutton.**

T. subimperforata, cylindrico-ovata, albida, minute costulata, costulis obliquis, regularibus, approximatis; spira ovato-conica, obtusula; anfr. 5, superiores celeriter crescentes, ultimus angustior, antice subascendens; sutura profunda; apertura fere verticalis, subcircularis; perist. tenue, subcontinuum, expansum, duplicatum, limbo externo retromisso a costulis satis

*) T. ovato-oblonga, cylindracea, tenui, hyalina, laevi, nitida; spira obtusa, apice quasi truncato; anfr. 4—5 ventricosis, primis 2 ad 3 minimis, transversim costellatis; apertura circulari; peritremate reflexo; umbilico nullo. (Sow. l. c.)

distincto. — Operc. normale. — Long. 2, diam. vix 1 mill. Ap. $^2/_3$ mill. longa. (Coll. Nr. 84.)

Carychium costulatum Hutton mss. teste Bens.
— *parvulum Boys* mss. in Mus. Brit.
Diplommatina costulata Bens. in Ann. and Mag. 1849. Sept. p. 194.
— — *Pfr.* Consp. N. 180.
— — *Chemn.* ed. II. t. 48. f. 34. 35.
— *costulatum Gray* Catal. Cycloph. p. 55. N. 2.

Habitat in montibus sub-Himalayanis occidentalibus (Bens.), Landour (Boys).

4. D. Huttoni Pfr. 213

T. *sinistrorsa*, rimata, ovato-conica, tenuis, minutissime costulato-striata, sericea, fulvescenti-albida; spira subturrita, apice acuta; anfr. $5^1/_2$ convexi, ultimus angustior; apertura subobliqua, depresso-subcircularis; perist. subcontinuum, duplicatum: internum brevissimum, margine columellari obsolete calloso-dentato, externo breviter expanso. — Long. $2^1/_3$, diam. medio 1 mill. Ap. vix $^2/_3$ mill. longa. (Coll. Nr. 85.)

Diplommatina Huttoni Pfr. in Proc. Zool. Soc. 1851.
— — *Pfr.* Consp. N. 181.
— — *Chemn.* ed. II. t. 48. f. 36. 37.

Habitat Muporce Indiae.

IX. Megalomastoma Guilding.

Operculum subcirculare, tenue, corneum, arctispirum, planiusculum. Testa anguste vel vix perforata, oblongo-turrita vel pupaeformis; apertura subcircularis, interdum canali levi laterali instructa; peristoma vel duplicatum, expansum vel incrassatum, rarius rectum, simpliciter incrassatum.

Megalomastoma Guild. in Swains. Malac. p. 186. 336.*)
— *Pfr.* in Zeitschr. f. Mal. 1847. p. 109. 1851. p. 148. Consp. p. 20.

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*) „Cylindrical, resembling Pupa, but has a horny operculum; spire not thickened; teeth or fold on the pillar none.“ Typi: C. flavula Lam. et M. brunneum Guild. (Swains p. 336.)

Megalomastoma Gray in Proc. Zool. Soc. 1847. p. 182. n. 524; Catal Cycloph. p 30.
Farcimen Troschel in Zeitschr. f. Mal. 1847. p 44.
— *Gray* in Proc. Zool. Soc. 1847. p 182. n. 523; Catal. Cycloph. p. 28.
Cyclostomatis spec. *Auctt.*

Conspectus specierum.

A. Peristomate recto . . . . §. 1. Nr. 1.
B. Peristomate expanso
1. incrassato . . . . §. 2. — 2—11.
2. subtenui, plerumque duplicato . §. 3. — 12—19.

§. 1.

214 1. **M. cylindraceum (Helix) Chemnitz.**

T. arcuato-subrimata, cylindracea, solida, longitudinaliter substriata, crocea; spira elongata, apice attenuata, plerumque subtruncata; anfr. 8 planiusculi, ultimus basi subcompressus; apertura subverticalis, subcircularis, lutea, croceo-annulata; perist. simplex, continuum, rectum, subincrassatum, superne crassum, angulatum, paululum solutum. — Operc. normale, castaneum. — Long. 34, diam. 10½ mill. Ap. 8½ mill. longa, 8 lata. (Coll. Nr. 86.)

Helix cylindracea Chemn. Conch. IX P. II. p. 166. t. 135. f. 1233. *)
— *crocea Gmel.* Syst. p. 3655 N. 243.
Turbo croceus Dillw. Descr. cat II. p 862. N. 112.
— *flavidus*, *Wood* Ind. suppl. t. 6. f. 31.
Cyclostoma flavula Lam. Encycl. méth. t. 461. f. 6?
— — *Lam.* Hist. VI. p. 146. N. 13. Ed. Desh. VIII. p. 357. **)
— — *Webb* et *Berth.* Synops. Canar. N. 3.?
— — *Desh.* in Encycl méth. II. p. 41. N. 8.
— *flavidum Gray* in Wood Suppl. p. 36.
— *crocea Desh.* in Lam. ed. II. p 357.
— . . . . *Sow.* Conch. Man. f. 529.

*) Helix cylindracea glabra, ex aurantio flavescens apice obtuso, apertura rotunda, labiata (Chemn l. c.)

**) T. cylindracea, pupaeformi, solida, glabra, luteo-rufescente; anfr. 8 convexiusculis; apertura annulo aureo distincta; labro extus marginato. — Long. 15½'''. (Lam. l. c.)

Cyclostoma flavulum Sow. Thes N. 53. p. 108. t. 24. f. 67. *)
— *cylindraceum Chemn.* ed II. N. 116. p. 114. t. 17. f. 1—3.
— *croceum Petit* in Journ. Conch. I. p. 45.
Megalomastoma flavula Swains. Malac. p. 336.
— *cylindraceum Pfr.* in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 182.
Farcimen flavulum Trosch. in Zeitschr. f. Malak. 1847. p. 44.
— *cylindraceum Gray* Catal. Cycloph. p. 28. N. 1.
β Anfractu ultimo antice et basi saturate violaceo.
Cyclostoma flavulum var. Sow. Thes. t. 24. f 66.

Habitat in insula Portorico; et in Teneriffa?

§. 2.

2. M. croceum Sowerby. 215

T. perforata, oblongo-turrita, solidula, oblique striatula, diaphana, crocea; spira turrito-conica, apice acutiuscula; anfr. 7—8 convexiusculi, ultimus $^2/_5$ longitudinis fere aequans, antice pallescens; apertura angulato-ovalis, intus concolor, basi axin testae excedens; perist. duplex: internum continuum, expansiusculum, adnatum, externum incrassatum, expansum, album, ad anfractum penultimum breviter interruptum. — Operc.? — Long. 31, diam. 13 mill. Ap. c. perist. 13 mill. longa, 10 lata. (Mus. Cuming.)

Cyclostoma croceum Sow. Thes. N. 167. p. 150. t. 29. f. 190. 191. **)
— — *Chemn.* ed. II N. 177. p. 164. t. 24. f. 15. 16.
— *Gooldianum Petit* in Journ. Conch. I. p. 45.
Megalomastoma croceum Pfr. in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 183
Farcimen croceum Gray Catal. Cycloph. p. 29. N. 2.

Habitat in sylvis montanis ad Fluvium Nigrum insulae St. Mauritii. (Benson in litt.)

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*) T. cylindraceo-attenuata, apice obtuso, paululum decollato; anfr. 6 planulatis, laevibus; sutura distincta, integra; apertura fere circulari, superne subangulata; peritremate obtuso, extus producto. (Sow. l. c.)

**) T. oblonga, ventricoso-pyramidali, crassiuscula, glabra, crocea, versus apicem in aurantio-fuscam exeunte; spira acuminata, apice obtusiusculo; anfr. 7—8 subventricosis, oblique substriatis; apertura ovali, postice acuminata, peritremate interno angusto, fulvo; externo incrassato, albo; umbilico parvo. (Sow. l. c)

216 3. **M. bifasciatum Sowerby.**

T. profunde rimata, ovato-conica, solidiuscula, laevigata, carnea, nitida; spira convexo-conica, acutiuscula; anfr. 8 convexiusculi, ultimus castaneo late bifasciatus, basi rotundatus; apertura subverticalis, angulato-ovalis; perist. duplex: internum breviter expansum, adnatum, externum incrassatum, obtusum, margine sinistro angusto, ad anfractum penultimum emarginato. — Operc.? — Long. 33, diam. 15 mill. Ap. intus 10½ mill. longa, 8 lata. (Mus. Cuming.)

Cyclostoma bifasciatum Sow. Thes. Suppl. N. 198. p. 167*. t. 31 B. f. 322. 323. *)
— — *Chemn.* ed. II. N. 252. t. 36. f. 3. 4.
Megalomastoma bifasciatum Pfr. Consp. N. 184.

Habitat Guayaquil (De Lattre).

217 4. **M. tortum Wood.**

T. rimata, ovato-oblonga, subdecollata, crassa, subtiliter striata, carneo-lutescens (interdum violacescens?); anfr. 5—6 convexi, subirregulares, ultimus attenuatus, basi compresso-carinatus; apertura subverticalis, circularis; perist. perincrassatum, dilatatum, anfractui penultimo longe adnatum, margine sinistro subauriculato, rimam umbilicalem interdum omnino claudente. — Operc. normale. — Long. 27, diam. 12 mill. Ap. intus 6½ mill. diam. (Coll. Nr. 87.)

Turbo tortus Wood Ind. Suppl. t. 6. f. 32.
Cyclostoma tortum Gray in Wood suppl. p. 36.
— — *Sow.* Thes. N. 169.! p. 151. t. 28. f. 182? **)
— — *Chemn.* ed. II. N. 115. p. 113. t. 17. f. 22. 23.
— *torta Desh.* in Lam. hist. VIII. p. 372. N. 42. ***)

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*) T. oblonga, acuminato-turrita, pallida; anfr. 7 rotundatis, laevibus, ultimo fusco-bifasciato; sutura distincta; apertura subcirculari, superne acuminata; peritremate duplici, incrassato, externo incrassato, reflexo, interno tenui, angusto; umbilico parvo. (Sow. l. c.)

**) T. oblongo-ovali, crassiuscula, laevi, apice decollato; anfr. 5—6 rotundatis, raptim crescentibus, substriatis; apertura circulari; peritremate incrassato, reflexo, latere anfractus ultimi tenuiori; umbilico parvo. (Sow. l. c.)

***) T. elongato-cylindracea, pupaeformi, in medio inflata, utrinque attenuata, laevigata, luteo-cretacea; anfractibus convexis, primis angustissimis, alteris latioribus: ultimo basi profunde perforato; apertura circulari; labro incrassato, marginato. — Long. 26, lat. 13 mill. (Desh. l. c.)

Cyclostoma torta Orbigny Moll. Cub. I. p. 257. *)
Farcimen tortum Trosch. in Zeitschr. f Mal. 1847 p. 44.
— — *Gray* Catal. Cycloph. p. 29. N. 4 (ex parte.)
Megalomastoma tortum Pfr. in Zeitschr. f. Mal. 1847. p 109. Consp. N. 185.

Habitat in insula Cuba.

5. **M. bituberculatum Sowerby.** 218

T. perforata, oblongo-pupaeformis, subtruncata, solida, irregulariter et ruditer striata, parum nitida, livido-carnea; spira subturrita; sutura profunda; anfr. 5 perconvexi, ultimus descendens, antice subsolutus, juxta perforationem subcompressus; apertura subverticalis, basi paulo producta, circularis, in fundo castanea; perist. valde incrassatum, reflexum, limbo externo ad anfr. penultimum exciso, utrinque in tuberculum rotundatum desinente. — Operc. normale. — Long. 34, diam. 15 mill. Ap. intus $7^1/_2$ mill. longa et lata. (Mus. Cuming.)

Cyclostoma bituberculatum Sow. Thes. Suppl. N. 192. p. 164*. t. 31 A. f 290. 291. **)
— — *Chemn.* ed. II. N. 253. t. 36 f. 5. 6.
Megalomastoma bituberculatum Pfr. Consp. N. 186.

β. Testa minore, magis ovata, breviter truncata, saturate violacea, sursum fulvida, peristomate utrinque auriculato: long. 24, diam. $11^1/_2$ mill. (Coll. Nr. 88.)

Cyclostoma auriculatum Sow. Thes. N. 171. p. 151. t. 31. f. 277. ***) Nec Orb.

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*) T. elongato-cylindracea, pupaeformi, crassa, laevigata, minime umbilicata, cretacea, antice violacea; spira elongata, medio inflata, apice truncato (junior acuto), anfr. 8 convexis, primis angustis, alteris latioribus; apertura circulari; labro incrassato, reflexo. — Long. 23, diam. 10 mill. — Cette espèce diffère essentiellement du *C. ventricosa* par une taille beaucoup moindre, par sa forme moins ventrue, plus allongée, par sa bouche bien plus rétrécie et son péristome moins large, manquant toujours de cette espèce d'élargissement du bord au dessus de l'ombilic; ses tours de spire sont aussi infiniment plus détachés et presque canaliculés sur la suture. Ses couleurs sont les mêmes, et nous croyons, qu'elle manque toujours d'épiderme. (Orb. l. c.)

**) T. oblongo-pyramidali, ventricosiuscula, crassa, albicante, spirae apice decollato, obtuso; anfr. 5 laevibus, transversim subundulatim obsolete striatis; apertura circulari, peritremate externo incrassato, extus revoluto, postice contra ultimum anfractum in nodulum desinente, deinde umbilicum versus angusto, demum supra umbilicum nodulum alterum formante; umbilico fere clauso, margine angulato. (Sow. l. c.)

***) T. oblongo-pyramidali, ventricosiuscula, crassa, spirae apice obtuso, anfr. 4—6 subrotundatis, primis pallescentibus, 2 ultimis castaneis, trans-

Cyclostoma auriculatum Chemn. ed. II. N. 113. p 112. t. 17. f. 16. 17.
γ. Testa var β simili, peristomate superne oblique exciso, interdum canaliculato:
Cyclostoma auriculatum var. Chemn. l. c. t 17. f. 12. 13.
solenatum Poey Mem hist nat. Cuba I t. 7. f 17 18?

Habitat in insula Cuba.

219 6. **M. Mani Poey.**

T. perforata, oblonga, pupaeformis, solida, irregulariter arcuato-striatula, parum nitida, unicolor virenti-fulva; spira inflata, sursum conica, vix truncatula; sutura profunda, simplex; anfr. 7 perconvexi, penultimus latere aperturae subplanatus, ultimus angustior, teres, circa perforationem *non compressus;* apertura circularis, basi vix ultra axin procedens; perist. continuum, valde incrassatum, subreflexum, anfractui penultimo breviter adnatum, latere columellari subauriculatim dilatatum. — Operc. normale, margine anfractuum subelevato. —Long. 28, diam. 12½ mill. Ap. intus 7 mill. longa. (Coll. Nr. 89.)

Cyclostoma Mani Poey Memorias sobre la hist. nat. de Cuba I. t 7. f. 19—22.
— — *Chemn.* ed. II. N. 387. t. 47. f. 29 - 31.
β. Anfractibus 2 ultimis virenti-violaceis.

Habitat in insula Cuba (Poey).

220 7. **M. ventricosum Orbigny.**

T. umbilicata, oblongo-ovata, apice decollata, crassa, laevigata, carnea; anfr. 5 convexi, rapide accrescentes, penultimus maximus, ultimus angustior, juxta umbilicum angustum angulatus; apertura circularis, intus fulvida; perist. continuum, expansum, incrassatum, album, anfractui penultimo breviter adnatum, margine supero et columellari subangulatim dilatatis. — Operc. normale. — Long. 29, diam. 16 mill. Ap. intus 7½ mill. longa. (Mus. Cuming. et Gruner.)

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versim subundulatim striatis; apertura circulari; peritremate externo incrassato, reflexo, postice in angulum obtusum desinente, deinde umbilicum versus tenui, demum supra umbilicum lamellari, patente; umbilico mediocri, margine obtuse angulato. (Sow. l. c.)

Cyclostoma ventricosa Orbigny Moll Cub. I. p. 256. t. 21. f. 3. *)
— *ventricosum Sow.* Thes. N. 170. p. 151. t. 28. f. 183. 184. **)
— — *Chemn.* ed. II. N. 112. p. 111. t. 17. f. 20. 21.
Farcimen ventricosum Trosch. in Zeitschr. f. Malak. 1847. p. 44.
— *tortum var. Gray* Catal. Cycloph. p. 29.
Megalomastoma ventricosum Pfr. in Zeitschr. f. Malak. 1847. p. 109. Consp. N. 188.

Habitat in insula Cuba.

8. M. alutaceum Menke. 221

T. perforata, ovato-oblonga, decollata, crassiuscula, undique impresso-punctata et ruguloso-*granulata*, albida, violacescens; anfr. 4½ convexi, ultimus attenuatus, antice solutus, deflexus, juxta perforationem subangulato-compressus; apertura subverticalis, fere circularis; perist. liberum, continuum, incrassato-subreflexum, superne et in margine sinistro subauriculatim dilatato. — Operc. normale. — Long. 23, diam. 11 mill. Ap. intus 6½ mill. longa. (Coll. Nr. 90.)

Cyclostoma alutaceum Menke mss.
— — *Pfr.* in Zeitschr. f. Mal. 1846. Jun. p. 85.
— — *Chemn.* ed. II. N. 114. p. 113. t. 17. f. 18. 19.
Megalomastoma alutaceum Pfr. in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 189.
Farcimen tortum var. Gray Catal. Cycloph. p. 30.

Habitat in insula Cuba.

9. M. auriculatum Orbigny. 222

T. perforata, ovato-conica, solida, subarcuato-striata, sub epidermide virenti-fulva superne albida, infra medium saturate

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*) T. oblongo-ventricosa, pupaeformi, crassa, laevigata, rosea, antice violacea; spira elongata medio inflata, apice truncata (junior acuminata); anfr. 7 convexiusculis, primis angustissimis, alteris latioribus, ultimo angustato, umbilicato; apertura circulari; labro incrassato, reflexo, auriculato. — Long 26—30, diam 15—16 mill. — Bouche petite, circulaire, entourée de larges bourrelets épais, plus larges au dessus de l'ombilic, où ils forment une saillie, pour se rétrécir ensuite avant de venir rejoindre la spire. — Opercule mince, corné, spiral. — Cette espèce de Cyclostome se distingue facilement de toutes les autres, par sa forme démesurément ventrue, ce qui la rend pupoïde; c'est aussi l'une des plus épaisses du genre. (Orb. l. c.)

**) T. oblongo-ovali, crassa, laevi, apice decollato; anfr. 5 rotundatis, rapide crescentibus, transversim tenerrime striatis, penultimo maximo; apertura circulari; peritremate incrassato, reflexo, latere anfractus ultimi angustiori, postice angulato, latere umbilicali subexpanso; umbilici parvi margine externo obtuse angulato; operculo multispirali, margine anfractuum sublamellari. (Sow. l. c.)

violacea; spira convexo-turrita, apice *integra*, acutiuscula; anfr. 7 convexi, ultimi subirregulariter descendentes, ultimus minus convexus, circa perforationem subcompressus; apertura verticalis, circularis, fundo violaceo-fusca; perist. continuum, margine anfractum penultimum breviter tangente simplice, reliquis incrassato-reflexis, columellari auriculatim dilatato. — Long. 22, diam. 11 mill. Ap. intus $6^1/_2$ mill. diam. (Coll. Nr. 91.)

Cyclostoma auriculata Orb. Moll. Cub. I. p. 257. t 22. f. 1. 2. *)
— — *Desh.* Traité élém. Conch. t. 82. f. 11.
— *bicolor Gould* in Bost. Journ. IV. 1 (extus). Cf. Gould in Proc. Bost. Soc. 1843. p. 138.
— *auriculatum Gould* in Bost. Journ. IV. 4. p. 494.
— — *var. Chemn.* ed. II. p. 112. t. 17. f. 14. 15.
— *idolum Féruss.* Mus.
— *tortum var. Sow.* Thes. t. 28. f. 181?
Megalomastoma auriculatum Pfr. in Zeitschr. f. Mal. 1847. p. 109; Consp. N. 187.
Farcimen tortum var. Gray Cat. Cycl. p. 29.

β. Testa paulo minore, perist. minus incrassato:

Cyclostoma apertum Pocy Mem. hist. nat. Cuba I. t. 7. f. 15. 16.

Habitat in insula Cuba. (La Carolina, St. Ana, Retiro, Mt. Vernon: Gould.)

223 10. **M. Orbignyi Pfr.**

T. subperforata, elongato-pupaeformis, solida, confertim arcuato-striata, rubello-fulva; spira subcylindrica, sensim attenuata, apice conica; sutura profunda; anfr. 8 *vix convexi*, penultimus latus, ultimus fascia lata violacea, antrorsum evanescente ornatus, *basi crista compressa, obtusa* munitus; apertura verticalis, circularis; perist. incrassatum, subreflexum, superne appressum, infra cristam anfractus penultimi subexcisum. — Operc. tenue, albidum, extus concavum. — Long. 27, diam. 9 mill. Ap. c. perist. $7^1/_2$ mill. longa et lata, intus 5 diam. (Coll. Nr. 92.)

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*) T. elongata, subcylindrica, crassa, longitudinaliter striata, umbilicata, albescente, antice violacea; spira elongata, cylindrico-conica, apice acuminato; anfr. 7 convexis; apertura rotunda; labro crasso, reflexo, auriculato. — Long. 24, diam. 11 mill. — Voisine du *C. torta*, avec laquelle elle a sans doute été confondue, cette espèce en diffère par sa forme non pupoïde et plutôt subconique, par ses fortes stries, par la partie latérale dilatée de sa bouche, représentant un oreillon. (Orb. l. c.)

Cyclostoma Orbignyi Pfr. in Proc. Zool. Soc. 1850.
— — *Chemn.* ed. II. N. 262. t. 37. f. 3. 4.
Megalomastoma Orbignyi Pfr. Consp. N. 190. p. 73.

β. Testa unicolore virenti-fulva.

γ. Testa minore, interdum omnino violacea, anfractibus convexioribus; long. 20, diam. 8 mill.

Cyclostoma Orbignyi var. Chemn. l. c. t. 37. f. 5. 6.

Habitat in insula Haiti (Sallé).

11. **M. chrysallis Pfr.** 224

T. umbilicata, distorto-ovata, solida, striatula et punctato-malleata, fusco-carnea; spira irregulariter ovata, apice conoidea, acutiuscula; sutura levis; anfr. 6 convexiusculi, penultimus latere aperturae planulatus, ultimus angustior; apertura verticalis, circularis; perist. crassum, dilatatum, patens, reflexum, margine supero linea horizontali adnato. — Operc.? — Long. 16, diam. 9 mill. Ap. intus 4 mill. longa. (Mus. Cuming.)

Cyclostoma chrysallis Pfr. in Proc. Zool. Soc. 1851.
— — *Chemn.* ed. II. N. 217. t. 31. f. 23. 24.
Megalomastoma chrysallis Pfr. Consp. N. 191. p. 73.

Habitat Arva (Cuming).

§. 3.

12. **M. simulacrum Morelet.** 225

T. subperforata, turrita, truncata, solida, laevigata, vix nitidula, virenti-fulva vel castanea; spira elongata, sensim attenuata; sutura submarginata; anfr. superstites 6 convexiusculi, ultimus basi filo-carinatus, supra carinam striatus; apertura verticalis, subcircularis; perist. duplex: internum breviter porrectum, externum late expansum, album, intus concavum, ad perforationem interruptum, margine supero appresso, columellari libero. — Operc. corneum, planum, arctispirum, margine anfractuum sublamelloso. — Long. 35, diam. 11 mill. Ap. intus 7 mill., cum perist. 11 mill. longa. (Mus. Cuming.)

Cyclostoma simulacrum Morelet Test. noviss. p. 22. N. 54. *)

*) T. pyramidalis, umbilicata, fulvo-virescens vel saturate castanea; spira turrita, apice pallidiore, acuminato, plerumque decollato; anfr. 10—12 planulati, obsolete striati, ultimo ad aream umbilicalem excavato, filocarinato; apertura circularis; perist. intus nitidum, pallide cinerascens, duplex; internum lineare, integrum, emergens; externum late expansum, concavum; margines acuti, versus umbilicum soluti, limbo sinistro libero; columellari appresso, utroque reflexiusculo. — Long. 38—45, diam. 11—12 mill. (Mor. l. c.)

Cyclostoma simulacrum Chemn. ed. II. N. 256. t. 36. f. 11. 12.
Megalomastoma simulacrum Pfr. Consp. N. 192.
β. Testa minore, anfractibus convexioribus; long. 28, diam. 10 mill.
Cyclostoma Copanense Sow. Thes. Suppl. N. 194. p. 165*. t. 31 B. f. 310. 311.*)

Habitat in profundis sylvarum provinciae Vera Paz Guatemalae.

226 13. **M. Guatemalense Pfr.**

T. perforata, oblonga, solidula, subtruncata, striatula, olivaceo-fusca; spira convexiusculo-turrita; anfr. 6 parum convexi, ultimus angustior, antice descendens, breviter solutus, basi circa perforationem apertam compressus, nec carinatus; apertura verticalis, subcircularis; perist. liberum, album, duplex: internum continuum, vix porrectum, externum dilatatum, horizontaliter expansum, supra perforationem excisum. — Operc.? — Long. 24, diam. 8 mill. Ap. $5^1/_2$ mill. longa. (Mus. Cuming.)

Cyclostoma Guatemalense Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 257. t. 36. f. 13. 14.
Megalomastoma Guatemalense Pfr. Consp. N. 193. p. 58.

Habitat in provincia Vera Paz Guatemalae.

227 14. **M. altum Sowerby.**

T. subperforata, oblongo-turrita, solidula, subtiliter striata, sublaevigata, sericea, castanea; spira convexo-turrita, apice lutescente acutiuscula; anfr. 7—8, supremi vix convexiusculi, penultimus convexior, ultimus angustior, basi rotundatus, obtuse filocarinatus; apertura subobliqua, basi producta, circularis, intus brunnea; perist. duplex: internum continuum, expansum, latere sinistro juxta columellam subcanaliculato-impresso, externum breviter expansum, superne et ad sinistram dilatatum. — Operc. membranaceum, planum, arctispirum, corneo-lutescens. — Long. 26, diam. 9 mill. Ap. intus 6 mill. diam. (Coll. Nr. 93.)

Cyclostoma altum Sow. in Proc. Zool. Soc. 1842. p. 84. **)

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*) T. acuminato-turrita (plerumque decollata), laevi, tenuissime striata, nitida, olivaceo-fulva; spira elongata; anfr. 6 rotundatis; sutura distincta; apertura circulari; peritremate duplici, interno tenui, angusto, porrecto, ad ultimum anfractum interrupto, externo lato, lamellari, extenso, subinflexo, ad ultimum anfractum porrecto, emarginato, flexuoso; umbilico mediocri, extus carinato; operculo corneo, multispirali, lamelloso, intus stylo brevi, centrali, margine incrassato. (Sow. l. c.)

**) T. acuminato-turrita, crassiuscula, fusca, laevi, tenuissime striata,

Cyclostoma altum Sow. Thes. N. 173. p. 152. t. 28. f. 187.
— — *Chemn.* ed. II. N. 131. p. 127. t. 15. f. 12—14.
Megalomastoma altum Pfr. in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 194.
— — *Gray* Catal. Cycloph. p. 31. N. 2.

Habitat in insula Negros Philippinarum (H. Cuming).

15. M. sectilabrum Gould. 228

T. perforata, oblongo-turrita, solidula, subtilissime striata, opaca, fusca; spira turrita, apice obtusiuscula; anfr. 7 convexi, ultimus infra penultimum subrecedens, basi rotundatus, non filosus; apertura obliqua, basi producta, ovali-subcircularis; perist. duplex: internum expansum, adnatum, latere columellari subeffusum, externum breviter patens, ad anfr. penultimum breviter interruptum, superne et infra perforationem dilatatum. — Operc.? — Long. 23, diam. 10 mill. Ap. c. perist. 9 mill. longa, medio 9 lata. (Coll. Nr. 94.)

Cyclostoma sectilabrum Gould in Proc. Bost. Soc. I. 1843. p. 140.
— — *Gould* in Journ. Bost. Soc. 1844. p. 459. t. 24. f. 10. *)
— — *Chemn.* ed. II. N. 178. p. 164. t. 24. f. 17. 18 (Ex Gould) et t. 47. f. 11. 12.
Megalomastoma sectilabrum Pfr. in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 195.
Farcimen sectilabrum Gray Catal. Cycloph. p. 29. N. 3.

Habitat Tavoy in Burmah Anglorum.

16. M. funiculatum Benson. 229

T. breviter rimata, turrito-oblonga, tenuis, striata et irregulariter malleata, subpellucida, fusca; spira elongata, apice obtusiuscula; anfr. 7 convexiusculi, ultimus $^1/_3$ longitudinis

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apice obtusiusculo; anfr. 7—8 rotundatis; sutura distincta, tenui; apertura circulari; labio subincrassato, reflexo-patente, duplici, margine externo magis, interno minus expanso, intus canali parva ad basin columellarem munito; umbilico mediocri, extus carina obtusa marginato; operculo corneo, tenui, multispirali. — Long. 1,0, lat. 0,3″. (Sow. l. c.)

*) T. turrita, spira acuminata, arcte umbilicata, brunnea; anfr. 8 subventricosis, vix striatis, penultimo subgibbo; apertura suborbiculari, intus rubescente; perist. duplici, incrassato, albo, prope angulum posticum canali parvo interrupto. — Long. 1″; diam. $^1/_4$″. — Closely resembles *C. altum Sow.*, but has the fissure across the peritreme on the opposit side. *C. croceum Sow.* may be only a faded specimen of this shell. (Gould l. c.)

subaequans, basi carina funiformi munitus; apertura subverticalis, basi vix producta, circularis; perist. continuum, carneum, breviter adnatum, undique expanso-reflexum. — Operc.? — Long. 22½, diam. 8½ mill. Ap. intus 6 mill. diam. (Mus. Benson, Cuming et Brit.)

Cyclostoma funiculatum Bens. in Journ. As. Soc. VII. 1838. p. 217.
— — *Sow.* Thes. Suppl. N. 195. p. 166*. t. 31 B. f. 316. 317. *)
— — *Chemn.* ed. II. N. 219. t. 31. f. 27. 28.
Megalomastoma funiculatum Gray Catal. Cycloph. p. 31. N. 3.
— — *Pfr.* Consp. N. 196.

Habitat Darjiling in regione Sikkiménsi Himalayae.

280 17. **M. Guildingianum Pfr.**

T. subperforata, oblongo-turrita, solidula, sublaevigata, nitida, castanea; spira elongata, apice truncatula; anfr. 8 convexiusculi, ultimus angustior, spiraliter obsolete sulcatus, basi rotundatus; apertura subverticalis, subcircularis; perist. duplex, album: internum continuum, expansum, latere sinistro subcanaliculatum, externum reflexum, superne subangulatum, margine columellari subdilatato-patente. — Operc.? — Long. 22, diam. 8 mill. Ap. intus 4½ mill. longa. (Mus. Benson.)

Cyclostoma Guildingianum Pfr. in Zeitschr. f. Mal. 1851. p. 28.
— — *Chemn.* ed. II. N. 218. t. 31. f. 25. 26.
Megalomastoma Guildingianum Pfr. Consp. N. 197.

Habitat . . .?

231 18. **M. pauperculum Sowerby.** †

T. cylindraceo-turrita, nitida, olivaceo-fulva; spira obtusiuscula; anfr. 6 subrotundati, tenerrime lineis incrementi striati (erosione nonnunquam rugulosi); sutura distincta, profundiuscula; apertura fere circularis; peritrema subincrassatum, rotundato-reflexum, prope ultimum anfractum subfoliaceum, subinterruptum; umbilicus parvus, linea subobsoleta circumambiente. (Sow.) — Operc.? — Long. 18, diam. 8 mill. Ap. intus 5½ mill. longa. (Ex ic.)

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*) T. cylindraceo-turrita, laeviuscula, nitida, olivaceo-fulva; spira obtusiuscula; anfr. 7 subrotundatis, posticis tenerrime striatis, ultimo ruguloso, postice striato; sutura distincta, tenui; apertura circulari; peritremate incrassato, rotundato-reflexo, subaurantiaco; umbilico parvo, extus carina valida caelata munito. (Sow. l. c.)

Cyclostoma pauperculum Sow. Thes. Suppl. N. 196. p. 166 *. t. 31 B. f. 318.
Megalomastoma pauperculum Pfr. Consp. N. 198.

Habitat Bhotan in regione Sikkimensi Himalayae (Benson).

19. M. Antillarum Sowerby. 232

T. breviter rimata, turrita, longitudinaliter confertim costulato-striata, epidermide nitidula, corneo-fusca induta; spira elongata, apice obtusiuscula; sutura profunda; anfr. 8 convexi, ultimus penultimo angustior, $^1/_4$ longitudinis subaequans, basi carina elevata, funiformi munitus; apertura parum obliqua, subcircularis, intus nitida, fulvida; perist. subduplicatum, solutum, continuum, superne angulatum, breviter expansum, margine supero sinistro subexciso. — Operc. parum immersum, fusco-lutescens. — Long. 17, diam. $5^1/_2$ mill. Ap. intus $3^1/_2$ mill. longa. (Coll. Nr. 95.)

Cyclostoma Antillarum Sow. Thes. N. 168. p. 150. t. 28. f. 180. *)
— — *Chemn.* ed. II. N. 132. p. 127. t. 15. f. 15. 16.
Megalomastoma brunnea Guild. in Swains. Malac. p. 333. f. 97 g. h. i. (auct.)
— *Antillarum Pfr.* in Zeitschr. f. Mal. 1847. p. 109. Consp. N. 199.
— — *Gray* Catal. Cycloph. p. 31. N. 5.

Habitat in insulis Tortola et St. Vincentii.

Obs. Cl. Gray huc refert *Megalomastoma suspensum Guild.* et *Swains.* (Malac. p. 186. f. 29.), quod autem ex icone valde diversum videtur. Apertura in hac superne minime angulata apparet et lirae spirales testam cingunt. — Cl. *Benson* e contrario in illa testa, quam nomine *Cyclostomatis Guildingiani* descripsi, *Megalomastoma suspensum* quaerendum esse in litteris suspicatus est.

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*) T. turrita, apice obtusiusculo; anfr. 8 rotundatis, longitudinaliter striatis, epidermide cornea instructa; sutura distincta; apertura circulari; peritremate reflexo-patente, albicante, superne submucronato, latere umbilicali late emarginato; umbilico parvo, margine elevato, crenulato; operculo circulari, spirali, corneo, anfractibus confertis. — Tortola. (Sow. l. c.)

X. Cataulus Pfeiffer.

Operculum orbiculare, planum, corneum, arctispirum. — Testa perforata, pupaeformis, non callosa, basi carina filiformi cincta; apertura integra, basi canali subcirculari prolongata; peristoma continuum, basi in carinam anfractus ultimi dilatatum.

Cataulus Pfr. in Zeitschr. f. Malak. 1851. p. 149. Consp. p. 21.
Cyclostomatis spec. *Auctt.*
Megalomastomatis spec. *Gray.*

233 **1. C. tortuosus (Turbo) Chemnitz.**

T. profunde rimata, fusiformi-oblonga, solidula, subtilissime striata, nitida, albida; spira ovato-turrita, apice acutiuscula; anfr. 7 convexi, 2 penultimi lati, ultimus gracilior, solutus, deorsum protractus, basi carina filiformi, juxta aperturam latiore munitus; apertura verticalis, subcircularis; perist. continuum, album, reflexum, basi distincte canaliculatum, extus angulatum, margine dextro flexuoso. — Operc.? — Long. 18, diam. medio 6 mill. Ap. 5 mill. longa, 4$^1/_3$ lata. (Mus. Cuming.)

Turbo tortuosus Chemn. Conch. XI. p. 158. t. 195. f. 1882. 1883.*)
Helix tortuosa (Cochlodina?) *Féruss.* Prodr. p. 61. N. 504.
Pupa tortuosa Gray in Ann. of Phil. New ser. IX. p. 413.
Urocoptis? tortuosa Beck Ind. p. 83. N. 10.
Cyclostoma tortuosum Sow. Thes. N. 172. p. 152. t. 28. f. 185. 186. **).
— — *Chemn.* ed. II. N. 179. p. 165. t. 24. f. 19. 20.
Megalomastoma tortuosum Pfr. in Zeitschr. f. Mal. 1847. p. 109.
— — *Gray* Catal. Cycloph. p. 30. N. 1.
Cataulus tortuosus Pfr Consp. N. 200.

Habitat in insulis Nicobaris (Chemnitz).

234 **2. C. Templemani Pfr.**

T. subperforata, subfusiformi-oblonga, solidula, striata,

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*) T. cylindrica, subumbilicata, alba, pellucida, anfractibus 6 rotundatis, rostro seu anfractu infimo insolite protenso, exserto, curvato, basi carinata; apertura orbiculari, annulata. (Chemn. l. c.)

**) T. oblonga, pupiformi, alba, tenui, lucida; anfr. 7 rotundatis, obsoletissime striatis, ultimo compressiusculo, prope aperturam subcoarctato, exserto; sutura distincta; apertura circulari; peritremate continuo, reflexo, infra interne canaliculato; umbilico parvo, carinato, carina usque ad marginem peritrematis continua. (Sow. l. c.)

parum nitida, castanea; spira oblongo-turrita, apice acutiuscula; anfr. 8 convexiusculi, ultimus basi acute et prominenter carinatus, circa umbilicum angustissimum profunde striatus; apertura circularis, basi subproducta; perist. continuum, aurantiacum, superne breviter adnatum, margine dextro sinistroque reflexo-patentibus, basali deorsum dilatato, canaliculato: canali extus lato, intus lineari. — Operc.? — Long. 20, diam. infra medium $7^1/_2$ mill. Ap. intus 4 mill. diam., c. perist. 6 mill. longa, $5^1/_3$ lata. (Mus. Cuming. et Coll. Nr. 96.)

Pupina Templemani Pfr. in Proc. Zool. Soc. 1851.
— — *Chemn.* ed. II. Cyclost. t. 31. f. 15. 16.
Cataulus Templemani Pfr. Consp. Nr. 201.

Habitat in insula Ceylon (Templeman).

3. C. Layardi Gray. 235

T. subperforata, subfusiformi-oblonga, solida, distincte arcuato-striata, pallide straminea; spira oblongo-turrita, apice acutiuscula; anfr. 8 planiusculi, ultimus basi carina elevata, compressa munitus, circa umbilicum angustissimum costulatus; apertura verticalis, subcircularis, basi canali subaperto aucta; perist. continuum, album, superne breviter adnatum, duplex: internum porrectum, externum incrassato-reflexum, basi subangulatim productum, canali extus lato, introrsum angustiore excavatum. — Operc. normale. — Long. $17^1/_2$, diam. medio 7 mill. Ap. intus $3^1/_2$ mill. diam., cum perist. 6 mill. longa, 5 lata. (Mus. Brit. et Cuming.)

Megalomastoma Layardii Gray Catal. Cycloph. p. 31. N. 4. (absque descriptione.)
Pupina Templemani β *Pfr.* in Proc. Zool. Soc. 1851.
— *Layardi Pfr.* in Chemn. ed. II. Cyclost. t. 31. f. 17. 18.
Cataulus Layardi Pfr. Consp. N. 202.
β. T. fuscula, sutura albo-subcrenulata.

Habitat in insula Ceylon (Layard).

4. C. pyramidatus Pfr. 236

T. subperforata, ovato-pyramidata, solida, distincte subarcuatim et confertim striata, sericea, saturate castanea; spira turrita, apice acutiuscula; anfr. 7—$7^1/_2$ modice convexi, ultimus non attenuatus, basi axin vix excedens; carina basalis compressa, antice vix dilatata; periomphalum latiusculum, profundius striatum, medio turgidum; apertura subcircularis; perist.

album, continuum, breviter adnatum, incrassatum, horizontaliter patens et reflexiusculum, basi vix productum, canali mediocri perforatum. — Operc.? — Long. 23, diam. 10 mill. Ap. c. perist. 9 mill. longa, $8^1/_3$ lata. (Mus. Cuming.)

Cataulus pyramidatus Pfr. in Proc. Zool. Soc. 9 Mart. 1852.
— — *Chemn.* ed. II. Cycl. t. 48. f. 11.

β. Major, perist. basi subangulatim producto; long. 29, diam. $12^1/_2$ mill.; ap. c. perist. 11 mill. longa, 10 lata. (Mus. Cuming.)
Cataulus pyramidatus var. Chemn. l. c. f. 9. 10.

Habitat in insula Ceylon.

237 5. **C. eurytrema Pfr.**

T. subperforata, subfusiformi-oblonga, solida, subarcuato-striata, vix nitidula, castanea; spira turrita, apice obtusiuscula; anfr. $8^1/_2$ convexi, ultimus angustior, basi oblique supra axin protractus; carina basalis valida, compressa, antice sensim tubae instar dilatata; apertura circularis; perist. carneum, continuum, breviter adnatum, incrassatum et reflexum, parte sinistra marginis basalis canali magno subcirculari, retrorsum in rimam filiformem abeunte, perforato. — Long. 26, diam. 10 mill. Ap. c. perist. oblique $8^1/_2$ mill. longa, $7^1/_2$ lata. (Mus. Cuming.)

Cataulus eurytrema Pfr. in Proc. Zool. Soc. 9 Mart. 1852.
— — *Chemn.* ed. II. Cycl. t. 48. f. 12. 13.

Habitat in insula Ceylon.

238 6. **C. Thwaitesi Pfr.**

T. vix perforata, subfusiformi-turrita, solida, longitudinaliter confertim costulata, vix nitidula, violaceo-fusca; spira ovato-turrita, apice acutiuscula; sutura impressa; anfr. 7–$7^1/_2$ convexiusculi, ultimus vix attenuatus; carina basalis validissima, compressa, *angulatim patens*, alba; apertura verticalis, circularis; perist. duplex, album: internum basi profunde incisum, externum ad anfr. penultimum excisum, caeterum incrassatum, reflexum, basi canali mediocri perforatum. — Operc.? — Long. 19, diam. 7 mill. Ap. c. perist. 6 mill. longa et lata. (Mus. Cuming.)

Cataulus Thwaitesi Pfr. in Proc. Zool. Soc. 9 Mart. 1852.
— — *Chemn.* ed. II. N. 6. t. 49. f. 9. 10.

Habitat in insula Ceylon (Thwaites).

XI. Pupinella Gray.

Operculum corneum, arctispirum. — Testa ovata, epidermide tenui, cornea induta; apertura circularis; peristoma reflexum, latere sinistro prope basin canaliculatum.

Pupinella Gray Catal. Cycloph. Brit. Mus. p. 33.
— *Pfr.* in Zeitschr. f. Mal. 1851. p. 150. Consp. p. 22.
Pupina §. 3. *Pfr.* in Zeitschr. f. Mal. 1847. p. 110.
Cyclostoma spec. *Sowerby.*

1. **P. pupiniformis Sowerby.** 239

T. aperte perforata, oblonga, sub lente regulariter et confertim striata, brunnea; spira superne sensim attenuata, acutiuscula; anfr. 7 convexiusculi, ultimus penultimo brevior et angustior; columella rima obliqua, lineari, extus in foramen apertum terminata dissecta; apertura verticalis, subcircularis; perist. late expanso-reflexum, marginibus callo tenuissimo junctis, columellari plano, patente, circa foramen columellare incrassato et in carinam rotundatam, perforationem ambientem producto. — Long. 17, diam. $6^2/_3$ mill. Ap. intus 4 mill. longa. (Coll. Nr. 97.)

Cyclostoma pupiniforme Sow. in Proc. Zool. Soc. 1842. p. 84. *)
— — *Sow.* Thes. N. 174. p. 152. t. 28. f. 188.
Pupina Sowerbyi Pfr. in Zeitschr. f. Mal. 1847. p. 110.
— — *Chemn.* ed. II. Cycl. p. 200. t. 27. f. 7. 8.
Pupinella pupiniformis Gray Catal. Cycloph. p. 34.
— — *Pfr.* Consp. N. 203.

Habitat in provincia Cagayan insulae Luzon (H. Cuming).

XII. Pupina Vignard.

Operculum tenue, membranaceum, arctispirum, subplanum. Testa pupaeformis, plerumque callo nitido obducta; perist.

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*) T. subcylindrico-turrita, crassiuscula, fusca, laevi, tenuissime striata, apice subabrupte acuminato; anfr. 6 rotundatis; sutura valida; apertura circulari; peritremate discontinuo; labio externo subincrassato, revoluto, flavido, ad basin columellarem canali angustissimo spirali interrupto; deinde superne latiori, demum supra ultimum anfractum leviter expanso, canali angusta tenuique inter anfractum ultimum et partem posticam labii posita; umbilico parvo, carina obtusa marginato, haecce carina externam partem canalis angustissimae basis columellaris efformante. — Long. 0,7, lat. 0,25. (Sow. l. c.)

simplex, incrassatum vel reflexum, margine columellari medio canali transverso dissecto, canali altero ad insertionem marginis dextri.

Pupina Vignard in Ann. sc. nat. XVIII. 1829. p. 440. *)
— *Gray* Syn. Brit. Mus. 1844. p. 91; Proc. Zool. Soc. 1847. p. 182 et Catal. Cycloph. p. 33.
— *Pfr.* in Zeitschr. f. Malak. 1851. p. 150. Consp. p. 22.
— *Sow.* Thes. Conch. Pt. I. 1842. p. 17. (ex parte.)
— §. 2 *Pfr.* in Zeitschr. f. Malak. 1847. p. 110.

Conf. Desh. in Encycl. méth. p. 406 (Maillotin) et Sowerby Conch. Man. ed. II. p. 240.

Conspectus specierum.

A. Callo nitido destitutae . . . . §. 1. Nr. 1—3.
B. Callo nitido undique obductae . . §. 2. — 4—8.

§. 1.

240 1. **P. Forbesi Pfr.**

T. profunde et breviter rimata, pupaeformis, solida, malleato-corrugata, opaca, fulvo-carnea; spira medio turgida, apice conoidea, obtusiuscula; anfr. 6, primi 4 convexi, regulares, quintus latere aperturali applanatus, ultimus multo angustior, antice descendens, ad aperturam ascedens, basi juxta rimam umbilicalem arcuato-carinatus; apertura basi producta, subcircularis; perist. crassum, fulvo-aurantiacum, reflexum, bicanaliculatum: canali altero ad insertionem marginis dextri, exiguo, altero profundissimo, callo circumvallato, inter marginem parietalem arcuatum et sinistrum. — Operc. lamellosum. — Long. 30, diam. 15 mill. Ap. intus 7 mill. longa et lata. (Mus. Cuming.)

Pupina grandis Forbes in Voy. Rattlesnake. App. p. 380. t. 2. f. 10.
— *Forbesi Pfr.* Consp. N. 204.
— — *Chemn.* ed. II. Cyclost. t. 31. f. 19. 20.

Habitat in Archipelago Louisiadarum (Macgillivray).

241 2. **P. humilis Jacquinot.**

T. vix subperforata, oblongo-ovata, solida, parum nitens, pallide fuscula; anfr. 6, superi convexiusculi, ultimus rotun-

*) Testa turbinata, ovalis; apertura profunde fissa; columella recurva, truncata. (Vign. l. c.)

datus, gracilis; apertura verticalis, circularis, bicanaliculata; perist. incrassatum, patens, margine dextro sursum producto, sinu angusto a parietali arcuato separato, columellari medio dissecto, canalem retrorsum arcuatum, callo circumvallatum formante. — Operc. profundum, tenue, pallide corneum. — Long. 16, diam. 7 mill. Ap. 5 mill. longa. (Mus. Cuming.)

Pupina humilis Jacq. in Ann. sc. nat. 1841.
— — *Sow.* in Proc. Zool. Soc. 1841. p. 103. *)
— — *Sow.* Thes. N. 7. p. 18. t. 4. f. 2.
— — *Reeve* Conch. syst. II. t. 181. f. 7. 8.
— — *Chemn.* ed. II. Cycl. p. 204. t. 27. f. 15. 16. (ex Sow.)
— — *Gray* Catal. Cycloph. p. 33. N. 2.
— — *Hombr.* et *Jacq.* Voy. Pol Sud. Moll. t. 10. f. 21—24. (c. anim.)
— — *Pfr.* Consp. N. 205.
— *antiquata Sow.* Conch. Man. ed. II. f. 526.

Habitat in Nova Guinea (Hombr. et Jacq.).

3. P. Mindorensis A. Adams et Reeve. 242

T. imperforata, pupaeformis, solidula, confertissime striata, sericina, fusca; spira oblongo-conica, apice acutiuscula; sutura profunda, marginata; anfr. 7 convexi, ultimus angustior, rotundatus; apertura subcircularis, obliqua (basi axin excedens), superne callo triangulari parietis aperturalis juxta insertionem peristomatis posito sinuata; perist. latum, incrassatum, angulatim reflexum, bicanaliculatum, ad canalem superiorem subito attenuatum, margine columellari plano, rectangule truncato, canalem apertum extrorsum dilatatum formante. — Operc.? — Long. 11, diam. 5 mill. Ap. intus 3 mill. longa. (Coll. Nr. 98.)

Pupina Mindorensis A. Adams et *Reeve* Voy. Samarang. Moll. p. 57. t. 14. f. 2. **)
— — *Chemn.* ed. II. Cycl. t. 31. f. 21. 22.
— — *Pfr.* Consp. N. 206.

Habitat in parte meridionali insulae Mindoro (Belcher).

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*) T. ovalis, solida, pallide lutea, anfractibus subrotundatis, ultimo prope aperturam paululum complanato; apertura rotundata, margine crasso, expanso, reflexo; labio interno crasso, postice plicato; columella crassa, lata, tortuosa, reflexa; incisura ad dorsum lata. — Long. 0,60, lat. 0,40 poll. (Sow. l. c.)

**) T. subcylindraceo-turrita, crassiuscula, fusca, tenuissime striata, anfr. 6 subrotundatis, apertura circulari, peritremate discontinuo, labio

§. 2.

243 4. **P. bilinguis Pfr.**

T. oblongo-ovata, tenuis, pellucida, nitida, cornea; spira sursum sensim attenuata, obtusiuscula; sutura impressa, vix callosa; anfr. 6, supremi 3 convexi, confertim striati, sequentes subplani, laevigati, ultimus $^1/_3$ longitudinis paulo superans; apertura verticalis, subcircularis, bicanaliculata, canali utroque aperto, ascendente, supero lamina valida, linguaeformi, triangulari formato; perist. subincrassatum, breviter expansum, margine columellari plano, linguaeformi, acuto. — Operc. normale. — Long. 10, diam. 5 mill. Ap. intus 3 mill. longa. (Mus. Cuming.)

Pupina bilinguis Pfr. in Proc. Zool. Soc. 1850. p. 97. Consp. N. 207.
— — *Forbes* in Voy. Rattlesnake. App. p. 375.

Habitat in Australia orientali: Cape York (Macgillivray).

244 5. **P. aurea Hinds.**

T. ovata, apice acutiuscula, nitidissima, laevigata, rubello-aurea; anfr. 6, supremi planiusculi, ultimus spiram subaequans, valde descendens, ad aperturam breviter ascendens; sutura callosa, linearis, submarginata; apertura verticalis, circularis, adjecto canali supero; paries aperturalis lamella arcuata, superne soluta, intrante munitus; columella profunde et oblique incisa; perist. simplex, albidum, obtusum, margine dextro sinuato, superne intus subincrassato. Operc.? — Long. 9, diam. 5 mill. Ap. c. canali supero fere 4 mill. longa. (Coll. Nr. 99.)

Pupina aurea Hinds Ann. and Mag. X. 1842. p. 83. t. 6. f. 6.
— — *Hinds* Voy. Sulph. Zool. t. 16. f. 20. 21.
— — *Chemn.* ed. II. Cycl. p. 205. t. 27. f. 21. 22.
— — *Gray* Catal. Cycloph. p. 33. N. 3.
— — *Pfr.* Consp. N. 208.

Habitat in Nova Hibernia.

245 6. **P. Thomsoni Forbes.**

T. imperforata, pupaeformis, tenuissima, laevigata, pellucida, pallide corneo-rubella; spira ovato-conica, apice obtu-

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externo reflexo, incrassato, pallido, ad basin columellarem canali angusto, et postice in canalem spiralem desinente. (Ad. & Rv. l. c.)

siuscula; sutura non callosa; anfr. 6, superi convexi, penultimus subplanatus, ultimus angustior; apertura subcircularis, bicanaliculata, basi axin excedens; perist. subincrassatum, margine parietali latere dextro in processum linguaeformem terminato, dextro sinu angusto, aequali ab eo separanto, repando, columellari truncato, cum basali canalem callis duobus sursum divergentibus marginatum formante. — Operc.? — Long. $8^1/_2$, diam. 4 mill. Ap. $2^1/_3$ mill. diam. (Mus. Cuming.)

Pupina Thomsoni Forbes in Voy. Rattlesnake. App. p. 381. t. 3. f. 2.

Habitat in „Fitzroy-Island" (Macgillivray).

7. P. bicanaliculata Sowerby. 246

T. ovato-acuminata, tenuiuscula, pellucida, laevigata, nitida, fulvescens vel hyalina; anfr. 6, ultimus spira brevior, regulariter descendens; sutura distincta, impressa; apertura subverticalis, circularis, superne canaliculata; paries aperturalis juxta insertionem marginis dextri lamella parva, erecta munitus; columella oblique angustissime incisa; perist. simplex, margine dextro vix incrassato. — Operc. succineum. — Long. $6^1/_2$, diam. 4 mill. Ap. $2^1/_2$ mill. longa. (Coll. Nr. 100.)

Pupina bicanaliculata Sow. in Proc. Zool. Soc. 1841. p. 103. *)
— — *Sow.* Thes. N. 9. p. 19. t. 4. f. 1.
— — *Chemn.* ed. II. Cycl. p. 204. t. 27. f. 19. 20.
— — *Gray* Catal. Cycloph. p. 33. N. 1.
— — *Pfr.* Consp. N. 209.

Habitat in insula Zebu Philippinarum (H. Cuming).

8. P. Keraudreni Vignard. 247

T. pupaeformis, apice obtusiuscula, diaphana, glabra, nitidissima, flavido-albida; anfr. 5, ultimus spira brevior, oblique descendens; sutura callosa; apertura verticalis, circularis, superne lamella minuta parietis aperturalis subcanaliculata; columella horizontaliter incisa; perist. simplex, obtusum. — Long. $6^1/_3$, diam. $3^1/_4$ mill. Ap. $2^1/_4$ mill. longa. (Coll. Nr. 101.)

Pupina Keraudrenii Vign. in Ann. sc. nat. XVIII. p. 440. t. 11 C. **)

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*) T. parva, ovalis, alba, translucida; anfractibus ventricosis; apertura magna, margine subexpanso, subincrassato, ad basin columellae inciso; labio interno postice plicato. — Long. 0,26, lat. 0,16". (Sow. l. c.)

**) ..... Ouverture arrondie, marginée, échancrure au bord gauche.

Pupina Keraudrenii Sow. in Proc. Zool. Soc. 1841. p. 103. *)
— — *Sow.* Thes. N. 8. p. 19. t. 4. f. 3.
— — *Chemn.* ed. II. Cycl. p. 206. t. 27. f. 23. 24.
— — *Gray* Catal. Cycloph. p. 33. N. 4.
— — *Pfr.* Consp. N. 210.
— *mitis Hinds* in Ann. and Mag. X. p. 83. t. 6. f. 7.

Habitat in Nova Guinea (Vignard), Nova Hibernia (Hinds) et in insulis Salomonis.

Species ex genere hodierno exclusae.

Pupina

aurantia Mörch = Registoma grande.
exigua Sow. = Registoma.
fusca Gray = Registoma.
grandis Gray = Registoma.
lubrica Sow. = Callia.
Nunezii Grat. = Registoma grande.
pellucida Sow. = Registoma.
similis Sow. = Registoma.
Sowerbyi Pfr. = Pupinella.
Templemani Pfr. = Cataulus.
vitrea Sow. = Registoma fuscum.

XIII. Registoma Hasselt.

Operculum circulare, tenue, corneum, arctispirum. Testa ovata, polita, callosa; apertura circularis, subintegra; peristoma subreflexum, margine parietali tenui, simplice, columellari medio dissecto, canaliculato.

Registoma Van Hasselt Allg. Konst- en Letterbode 1823.
— *Gray* Syn. Brit. Mus. 1842. p. 91; Proc. Zool. Soc. 1847. p. 182 & Catal. Cycloph. p. 31.
— *Pfr.* in Zeitschr. f. Malak. 1851. p. 151. Consp. p. 23.
Rhegostoma Agassiz Nomencl. zool.
Rhexistoma Herrmannsen Ind. gen. Malacoz. II. p. 390.
Moulinsia Grateloup Act. Soc. Linn. Bord. XI. 1841. p. 428. **)

évasée extérieurement; une lamelle dentiforme au côté droit. Columelle tronquée, recourbée, très faiblement calleuse à sa base. — Longueur à peine 3 lignes. (Vign. l. c.)

*) T. parva, cylindrica, griseo-rufescens; spira obtusa recta; apertura parva, margine incisura diviso; labio externo leviter incrassato, postice subplicato; labio interno plicato. — Long. 0,30, lat. 0,15 poll. (Sow. l. c.)

**) Testa cylindracea, subturrita, imperforata, non epidermata. Aper-

Pupina spec. *Gray* in Ann. of nat. hist. VI. p. 77.
Pupina § 1 *Pfr.* in Zeitschr. f. Malak. 1847. p. 110.
Conf. *Férussac* in Bull. sc. nat. 1824.

1. R. grande Gray. 248

T. ovato-cylindracea, apice obtusa, glabra, nitidissima, subdiaphana, sulphurea, citrina vel daucino-rubicunda; anfr. 5 convexi, ultimus spira brevior, devians, subplanulatus, antice castaneo-limbatus; sutura impressa, sub-simplex; apertura axi obliquo parallela, subangulato-circularis; columella dilatata, plana, suboblique incisa: incisura ad marginem foraminulum apertum, extus costam parum prominentem formante; perist. undique late expansum, obtusum. — Long. 11½, diam. 7⅓ mill. Ap. intus 5 mill. longa. (Coll. Nr. 102.)

Pupina grandis Gray in Ann. nat. hist. 1840. VI. p. 77.
— *Nunezii Sow.* in Proc. Zool. Soc. 1841. p. 101. *)
— — *Reeve* Conch. syst. II. t 181. f. 5. 6.
— — *Sow.* Thes. N. 1. p. 17. t. 4. f 8—11.
— — *Chemn.* ed. II. Cycl. p. 201. t 27. f. 1—6.
— — *Desh.* Traité élém. Conch. t. 82. f. 17. 18.
— *Namezii* (err.) *Sow.* Conch. Man. ed. II. f. 527.
— *aurantia Mörch* Catal. Conch. p. 9. n. 205.
Pupa aurantia Grat. in Act. Soc. Bord. XI. p. 166. absque descript.
Moulinsia Nunezii Grat. ibid. p. 429. t. 3. f. 22. 23. **)
Registoma grande Gray Catal. Cycloph. p. 32. N. 1.
— — *Pfr.* Consp. N. 211.

Habitat in insulis Philippinis Luzon, Samar, Catanduanos, Siquijor, Leyte (H. Cuming).

2. R. pellucidum Sowerby. 249

T. oblique ovata, apice obtusa, glaberrima, pellucida, fulvescens; anfr. 5½, supremi depressi, penultimus prominens,

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tura subintegra, rotundata. Canalis vel fissura obliqua ad marginem columellarem. (Grat. l. c.)

*) T. globosa, obliqua; apertura magna, margine valide expanso, reflexo, complanato, incisura triangulari penitus diviso; labio columellari concavo: anfractu ultimo prope aperturam subcomplanato. — Long. 0,50, lat. 0,35 poll. (Sow. l. c.)

**) T. vitellino-aurantia, ovato-cylindrica, subturrita, imperforata, apice obtusa, nitidissima, laevissima, subhyalina; anfract. convexiusculis, inaequalibus, ad suturam subcontinuis; apertura simplici, suborbiculata; peristomate subintegro, undique et late reflexo; fissura angusta ad marginem internum columellae. — Alt. 10—12, diam. 6—7 mill. (Grat. l. c.)

ultimus spira brevior, devians, antice breviter ascendens; sutura subsimplex; columella planata, retrorsum curvata, canali subtecto in foramen apertum desinente perforata; apertura axi parallela, subcircularis; perist. subincrassatum, undique breviter expansum. — Operc. tenue, fulvescens, extus concavum, intus medio papillatum. — Long. 7½, diam. 5 mill. Ap. oblique 3 mill. longa. (Coll. Nr. 103.)

Pupina pellucida Sow. in Proc. Zool. Soc. 1841. p. 102. *)
— — *Sow.* Thes. N. 2. p. 17. t. 4. f. 18—20.
— — *Chemn.* ed. II. Cycl. p. 202. t. 27. f. 17. 18.
Registoma pellucidum Gray Catal. Cycloph. p. 32. N. 2.
— — *Pfr.* Consp. N. 212.

Habitat in insulis Philippinis Luzon et Zebu (H. Cuming).

250 3. **R. simile Sowerby.**

T. ovata, subelongata, apice acutiuscula, glabra, nitida, pellucida, pallide fulvescens; anfr. 6 planiusculi, ultimus ⅓ longitudinis vix aequans; sutura linearis, subsimplex; columella incrassata, fornicata, incisura obliqua, profunda, in foramen dorso testae conspicuum desinente a peristomate separata; apertura subverticalis, basi protracta, circularis; perist. undique incrassatum, expansum, lutescenti-albidum. — Long. 11, diam. 5½ mill. Ap. intus 3 mill. longa. (Coll. Nr. 104.)

Pupina similis Sow in Proc. Zool. Soc. 1841. p. 102. **)
— — *Sow.* Thes. N. 5. p. 18. t. 4. f. 4. 5.
— — *Reeve* Conch. syst. II. t. 181. f. 3. 4.
— — *Chemn.* ed. II. Cycl. p. 202. t. 27. f. 13. 14.
Registoma simile Gray Catal. Cycloph. p. 32. N. 3.
— — *Pfr.* Consp. N. 213.

Habitat prope Bolino provinciae Zambales insulae Luzon H. Cuming).

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251 4. **R. fuscum Gray.**

T. ovato-acuminata, glaberrima, nitida, pellucida, brunnescenti-fulva; anfr. 6½—7 convexi, ultimus penultimo an-

*) T. obliqua, subglobosa, pellucida, spirae axe valde retrorso, anfractu penultimo elevato, ultimo complanato, margine reflexo, incisura diviso; columella lata convexa. — Long. 0,30, lat. 0,20 poll. (Sow. l. c.)

**) T. fulva, subelongata. recta, anfractibus subrotundatis, margine pal-

gustior, $^1/_3$ longitudinis non aequans; sutura simplex, leviter callosa; columella brevis, convexiuscula, incisura subhorizontali in foramen subtriangulare, dorso testae non conspicuum desinente terminata; apertura majuscula, circularis, subverticalis; perist. dilatatum, complanatum, undique expansum, aurantiacum vel luteum, margine basali perarcuato. — Long. 11, diam. $5^1/_3$ mill. Ap. intus $3^1/_3$ mill. longa. (Coll. Nr. 105.)

Pupina fusca Gray in Ann. of nat. hist. VI. 1840. p. 77.
— *vitrea Sow.* in Proc. Zool. Soc. 1841. p. 102. *)
— — *Sow.* Thes. N. 4. p. 10. t. 4. f. 6. 7.
— — *Reeve* Conch. syst. II. t. 181. f. 1. 2.
— — *Sow.* Conch. Man. ed. II. f. 524.
— — *Chemn.* ed. II. Cycl. p. 203. t. 27. f. 9—12.
— — *Desh.* Traité élém. Conch. t. 82. f. 19. 20.
Registoma vitreum Hass.?
— *fuscum Gray* Catal. Cycloph. p. 32. N. 4.
— — *Pfr.* Consp. N. 214.

Habitat in insulis Luzon et Mindanao (H. Cuming).

5. R. exiguum Sowerby. 252

T. imperforata, pupaeformis, tenuis, laevigata, pellucida, albido-vitrea; spira superne breviter conica, acutiuscula; anfr. $5^1/_2$ vix convexiusculi, sutura callosa juncti, ultimus basi attenuatus; apertura subcircularis, basi ultra axin procedens; perist. subincrassatum, expansiusculum, margine columellari dilatato, truncato, incisura obliqua, angusta a basali separato. — Operc. solidiusculum, albidum, extus concavum. — Long. 7, diam. vix 4 mill. Ap. 2 mill. diam. (Mus. Cuming.)

Pupina exigua Sow. in Proc. Zool. Soc. 1841. p. 103. **)
— — *Sow.* Thes. N. 6. p. 18. t. 4. f. 17.
— — *Chemn.* ed. II. Cycl. p. 204. t. 30. f. 38. (Ex Sow.)
Registoma exiguum Gray Catal. Cycloph. p. 33. N. 5.
— — *Pfr.* Consp. N. 215.

Habitat S. Nicolas insulae Zebu Philippinarum (H. Cuming).

6. R. Nicobaricum Pfr. 253

T. imperforata, compresse ovato-conica, solidula, glaberrima, nitida, pallide isabellina; spira convexa, sursum conica,

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lide fulvo, expanso, reflexo, rotundato, crasso, incisura usque ad dorsum diviso. — Long. 0,45, lat. 0,26 poll. (Sow. l. c.)

*) T. subelongata, recta, anfractibus subrotundatis, margine expanso, reflexo, complanato, incisura diviso. — Long. 0,50, lat. 0,25 poll. (Sow. l. c.)

**) T. parva, translucida, alba, cylindrica; anfractu penultimo inflato;

acutiuscula; sutura linearis; anfr. 5 vix convexiusculi, ultimus oblique descendens, antice breviter ascendens, basi rotundatus; apertura subverticalis, circularis, nodulo calloso minuto juxta insertionem marginis dextri coarctata; perist. simplex, vix expansiusculum, margine columellari subincrassato, incisura brevi, subascendente a basali separato. — Long. 6, diam. 3 mill. Ap. 2 mill. longa. (Mus. Cuming.)

Pupina Nicobarica (Registoma) Pfr. in Proc. Zool. Soc. 1852. 9 Mart.
— — *Chemn.* ed. II Cycl. t. 48. f. 28—31.

Habitat in insulis Nicobaricis.

XIV. Callia Gray.

Operculum tenue, membranaceum, arctispirum. Testa pupaeformis, callo nitida obducta; peristoma subcontinuum, rectum, vix incrassatum, margine columellari integro, superne appresse reflexo, perforationem juniorum omnino claudente.

Callia Gray in Ann. nat. hist. VI. 1840. p. 77; Syn. Brit. Mus. 1842. p. 91; Proc. Zool. Soc. 1847. p. 182 et Catal. Cycloph. p. 34.
— — *Pfr.* in Zeitschr. f. Mal. 1847. p. 110 et in Chemn. ed. II. Cycl. p. 207; Z. f. M. 1851. p. 152. Consp. p. 24.
Conf. *Wiegm.* Arch. f. Nat. 1841. II. p. 269 et *Herrmannsen* Ind. gen. I. p. 153.

254 1. **C. lubrica Sowerby.**

T. obtecte perforata, ovato-acuta, glabra, nitida, pellucida, fulvescenti-hyalina; anfr. 5 convexiusculi, ultimus spira multo brevior, ascendens; sutura impressa, callosa; apertura subcircularis, subverticalis, basi protracta; columella brevis, fornicata, perforationem plane tegens, cum peristomate angulum obtusum formans, nec incisa; perist. obtusum, expansiusculum. — Operc. fulvidum. — Long. 9, diam. $5^1/_2$ mill. Ap. 4 mill. longa. (Coll. Nr. 106.)

Pupina lubrica Sow. in Proc. Zool. Soc. 1841. p. 102.*)

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margine aperturae paululum incrassato, incisura diviso. — Long. 0,26, lat. 0,16 poll. (Sow. l. c.)

*) T. subobliqua, cylindrica; spira brevi obtusa, apertura rotundata; margine antice subexpanso, paululum incrassato, ad basin columellae vix emarginato; columella callosa. — Long. 0,35, lat. 0,25 poll. (Sow. l. c.)

Pupina lubrica Sow. Thes. N. 3. p. 18. t. 4. f. 12. 13.
— — *Reeve* Conch. syst. II. t. 181. f. 9. 10.
— — *Sow.* Conch. Man. ed. II. p. 90. f. 528.
Callia lubrica Pfr. in Zeitschr. f. Mal. 1847. p. 110. Consp. N. 216.
— — *Chemn.* ed. II. Cyclost. p. 207. t. 27. f. 30—33.
— — *Gray* Catal. Cycloph. p. 34. N. 1.
β. Major; long. 11, diam. 6 mill. (Coll.)
Callia lubrica var. Chemn. l. c. f. 28. 29.
γ. Minor; long. 7, diam. 4 mill. (frequentiss.)
Pupina lubrica var. Sow. Thes. t. 4. f. 14. 15.
Callia lubrica var. Chemn. l. c. f. 25—27.

Habitat in insulis Philippinis Luzon, Panay, Siquijor (H. Cuming).

B. Operculum subcirculare, anfractibus paucis, sensim crescentibus, nucleo subexcentrico.

XV. Jamaicia Adams.

Operculum testaceum, extus convexum, anfractibus paucis rudiusculis, oblique striatis, sublamellosis. Testa umbilicata, globoso-conica; apertura circularis; perist. simplex vel duplex, rectum vel reflexum.

Jamaicia (subgenus Cyclostomatis) *Adams* Contrib. to Conch. N. 6. p. 88. *)
— *Pfr.* in Zeitschr. f. Malak. 1851. p. 152. Consp. p. 24.

1. J. anomala Adams. 255

T. umbilicata, globoso-conica, tenuiuscula, spiraliter lirata et costulis confertioribus asperata, fulvida, fusco obsolete lineata; spira conica, subtruncata; anfr. superst. $3\frac{1}{2}$ convexi, ultimus subdescendens, antice breviter solutus; umbilicus mediocris, pervius; apertura fere verticalis, subcircularis; perist. simplex, rectum, liris subdenticulatum. — Operc. terminale, insertum, cinereo-albidum, sutura anfractuum lineari. — Diam.

*) Testa Choanopomiformis, apertura orbiculari, margine simplici; operculo extus spiraliter lamellifero et maxime convexo, intus laevi et maxime concavo (Adams l. c.)

maj. $12^1/_2$, min. 10, alt. 9 mill. — Operc. $2^1/_2$ mill. altum. (Coll. Nr. 107.)

Cyclostoma anomalum (Jamaicia) *Adams* Contrib. to Conch. N. 6. p. 90. *).
— — *Chemn.* ed. II. N. 382. t. 46. f. 4—6.
Jamaicia anomala Pfr. Consp. N. 217.

Habitat in insula Jamaica.

256 2. **J. Moussoniana Adams.**

T. umbilicata, globoso-conica, tenuiuscula, spiraliter lirata et costulis confertioribus, ad suturam profundam spinulosis exasperata, albido-fulvescens, rufo obsolete punctato-fasciata; spira convexo-conica, breviter truncata; anfr. superst. $3^1/_2$ convexi, ultimus circa umbilicum angustum, pervium distinctius spiraliter sulcatus, antice subsolutus; apertura fere verticalis, subcircularis; perist. duplex: internum subproductum, externum undique late retroflexum, subsquamose striatum, radiato-plicatum, superne anfractui penultimo angulatim adnatum. — Operc. cinereo-albidum, extus convexum, nucleo latiore subplano, anfractibus oblique striatis, carinato-marginatis. — Diam. maj. 14, min. $10^1/_2$, alt. $10^1/_2$ mill. Ap. $5^1/_3$ mill. longa. (Coll. Nr. 108.)

Cyclostoma Moussonianum Adams Contrib. to Conch. N. 9. p. 153. **)
— — *Chemn.* ed. II. N. 381. t. 46. f. 1—3.
Jamaicia Moussoniana Pfr. Consp. N. 218.

Habitat in insula Jamaica.

Obs. Species praecedenti persimilis, umbilico angustiore, sulcis basalibus validioribus, peristomate et operculo discrepans.

XVI? Licina Gray.

Operculum . . .? Testa conica, ultimo anfractu extra

*) Diverg. media circa 85°; alt. 0,47, lat. max. 0,5, min. 0,385 poll. (Ad. l. c.)

**) Diverg. media circa 75°; long. 0,54, lat. max. 0,53, min. 0,38 poll. — This shell closely resembles *C spinulosum*, except in the outer peritreme and the operculum, which widely distinguish it from the allied species. The operculum, however, somewhat resembles that of *C. anomalum*, and the lip is like that of *retrorsum*. (Ad. l. c.)

lineam spiralem producto, stricto; apertura oblonga vel subcircularis; peristoma subreflexum, expansum. (Gray *).

Licina Gray Catal. Cycloph. p. 60.
— *Browne* Jamaic. p. 401 ex parte.
— *Pfr.* in Zeitschr. f. Malak. 1851. p. 152. Consp. p. 24.

1. L. labeo (Nerita) Müller. 257

T. umbilicata, oblongo-turrita, truncata, lineis elevatis spiralibus et longitudinalibus confertis decussata, solida, nitens, subunicolor castanea; spira convexo-conica; anfr. superst. 4 convexiusculi, ultimus rotundatus, antice irregulariter pallidius strigatus; umbilicus infundibuliformis, subpervius, distinctius spiraliter sulcatus; apertura subverticalis, oblongato-rotunda, intus fusca; perist. subduplicatum, late expansum, continuum, anfractui penultimo breviter adnatum, margine dextro subrepando. — Long. 39, diam. 20½ mill. Ap. intus 13 mill. longa, 10 lata. (Mus. Cuming.)

Nerita labeo Müll. Hist. verm. II. p. 180. N. 367. **)
Turbo Lincina magna Chemn. Conch. IX. P. II. p. 56. t. 123. f. 1061. 1062. ***)
— *labeo Gmel.* Syst. p. 3605. N. 73.
— — *Dillw.* Catal. II. p. 865. N. 118.
Cyclostoma labeo Lam. Hist. VI. p. 145. N. 9. Ed. Desh. VIII. p. 356. †) Ex parte.
— — Encycl. méth. t. 461. f. 4.
— — *Wood* Ind. t. 32. f. 120.
— — *Desh.* in Encycl. méth. II. p. 40. N. 5.
— — *Sow.* Thes. N. 154. p. 146. t. 28. f. 165. ††).
— — *Chemn.* ed. II. t. 4. f. 1. 2. t. 42. f. 3. (exclusa descript.)

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*) Ex affinitate trium specierum huc relatarum cum *C. majusculo Morelet*, cujus operculum novimus, hoc genus cum *Choanopomate* jungendum esse suspicor.

**) N. testa oblonga, umbilicata, fusca, punctis convexis striata; apertura circinata, labro albo, dilatato. — Long. 15, lat. 11 lin. (Müll. l. c.)

***) T. umbilicata, subturrita, brunnea seu fuscata, anfractibus 6 valde convexis, decussatim striatis, apertura rotunda, labro albo fimbriato. (Chemn. l. c.)

†) T. oblonga, obtusa, umbilicata, pellucida, decussatim striata, alba aut rubente; maculis minimis luteis furcatis transversim seriatis; labro margine reflexo, albo, dilatato, patente. — Long. 17 lin. (Lam. l. c.)

††) T. oblonga, pyramidali, apice decollato; anfr. 4 rotundatis, subfuscis, decussatim striatis; apertura elliptica; peritremate albo, reflexo, latiusculo; umbilico mediocri. (Sow. l. c.)

Licina rugosa Browne Jam. p. 401. t. 40. f. 5—7.
— *labeo Gray* Catal. Cycloph. p. 60. N. 1.
— — *Pfr.* Consp. N. 219.
Klein Meth. ostrac. §. 161. Sp. 1. p. 55.
Davila Catal. rais. N. 997, p. 445.

Habitat in insula Jamaica.

258 2. **L. dubia Gmelin.**

T. umbilicata, oblongo-turrita, solida, spiraliter confertim striata, lineis longitudinalibus distantioribus granulato-decussata, nitida, luteo-albida, strigis angustis, fulguratis, rufis ornata; spira convexo-turrita, breviter truncata; sutura subcanaliculata, crenulata; anfr. superst. $4^1/_2$ perconvexi, ultimus teres; umbilicus infundibuliformis, subpervius; apertura parum obliqua, oblongo-rotundata, parvula, intus alba; perist. duplicatum: internum expansum, continuum, incumbens, externum anfractui penultimo breviter adnatum, lateribus perdilatatum, concentrice striatum. — Operc.? — Long. 36, diam. 19 mill. Ap. intus 12 mill. longa, $9^1/_2$ lata. (Mus. Cuming.)

Turbo lincina Born Test. p. 355. t. 13. f. 5. 6. *)
— *dubius Gmel.* Syst. p. 3606. N. 75. **)
Cyclostoma Borni Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— *dubium Chemn.* ed. II. N. 329. t. 42. f. 1. 2.
Licina Borni Pfr. Consp. N. 220. p. 59.

Habitat in insula Jamaica.

259 3. **L. evoluta Reeve.**

T. impervie umbilicata, oblongo-turrita, truncata, tenuiuscula, striis spiralibus et longitudinalibus confertis subtilissime decussata, parum nitida, cinereo et fulvo nebulosa, punctis rufis subseriatim conspersa; spira convexo-conica; sutura subcanaliculata; anfr. superst. 4 convexiusculi, ultimus rotundatus, antice solutus, subdescendens, basi distinctius spiraliter sulcatus; apertura verticalis, rotundato-ovalis, intus fusca; perist. continuum, liberum, subsimplex, expansum, margine columel-

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*) T. ovato-oblonga, solida; anfractus 5 teretes, contigui, striis rugulosis, transversim decussatis, scabri; apertura subcircinata, limbo expanso, anfractum vicinum vix tangente; umbilicus impervius; color albidus maculis nebulosis luteis. Long. 1 poll. 4 lin.; lat. 1 poll. — Jamaica. (Born l. c.)

**) T. oblonga umbilicata: anfractibus aequalibus decussato-striatis apertura dilatata. (Gmel. l. c.)

lari angustiore. — Long. 36, diam. 20 mill. Ap. intus 13 mill. longa, $11^1/_2$ lata. (Coll. Nr. 109.)

Cyclostoma evolutum Reeve Conch. syst. II. p. 99. t. 185. f. 18.
— — *Chemn.* ed. II. N. 330. t. 9. f. 20. t. 42. f. 4.
— — *Desh.* Traité élém. Conch. t. 82. f. 5. 6.
— *subasperum (List.) Sow.* Thes. N. 143. p. 142. t. 28. f. 159. *)
Cistula decussata Humphr. mss.
Licina evoluta Gray Catal. Cycloph. p. 61. N. 2.
— — *Pfr.* Consp. N. 221.
Lister hist. t. 25. f. 23. **)

Habitat in India orientali (Sow., Gray)??

4. L. Reeveana Pfr. 260

T. anguste umbilicata, ovato-oblonga, truncata, solida, lineis elevatis spiralibus et longitudinalibus regulariter decussata, violacea vel carneo-livida; sutura albomarginata, confertissime denticulata; anfr. superst. $4^1/_2$ convexi, ultimus basi distinctius spiraliter sulcatus; apertura verticalis, ovalis; perist. duplex: internum breviter expansum, externum dilatato-reflexum, superne angulatim productum, margine columellari latissimo. — Operc.? — Long. 31, diam. 16 mill. Ap. 11 mill. longa, 8 lata. (Mus. Cuming.)

Cyclostoma decussatum Sow. Thes. Suppl. N. 193. p. 165*. t. 31 A. f. 300. 301. ***) Nec Lam.
— *Reeveanum Pfr.* in Chemn. ed. II. N. 341. t. 43. f. 4. 5.
Licina Reeveana Pfr. Consp. N. 222.

Habitat in India occidentali.

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*) T. oblongo-conoidea, spira elevata, decollata; anfr. 5-6 rotundatis, subfuscis, albido-marmoratis, decussatim striatis; sutura distincta; apertura subelliptica, disjuncta; peritremate subrevoluto, latere anfractus ultimi non continuo; umbilico mediocri. (Sow. l. c.)

**) Buccinum umbilicatum quinque orbium, admodum tenuiter striatum et cancellatum, ipso ore rotundo. (Lister l. c.)

***) T. oblonga, pyramidali, fusca seu fusco-nigricante, decussatim sulcata; apice decollato; anfr. 4 rotundatis; sutura valida, crenulata; apertura subelliptica, peritremate duplici, interno tenuiusculo, sublevato, externo latiusculo, reflexo, umbilicum parvum subtegente. (Sow. l. c.)

XVII. Choanopoma Pfr.

Operculum testaceum, subcirculare, anfractibus sensim accrescentibus, margine externo libero, acuto, saepe in lamellam altam elevato, nucleo subexcentrico. Testa globoso-turbinata vel turrita, saepe truncata; apertura subovalis vel circularis; perist. plerumque duplex, limbo externo angulatim patente.

Choanopoma Pfr. in Zeitschr. f. Malak. 1847. p. 47. 107; 1851. p. 153; Consp. p. 25.
— *Gray* Catal. Cycloph. p. 48. (ex parte.)
Licina β Gray Syn. Brit Mus. 1842. p. 91. et Proc. Zool. Soc. 1847. p. 181.
Cyclostoma (spec.) *Auctt.*

Conspectus specierum.

A. Oblonga vel ovato-conica . . .	§. 1.	Nr. 1—5.
B. Globoso-conica.		
1. Margine peristomatis undulato .	§. 2.	— 6—14.
2. Margine peristomatis plano . .	§. 3.	— 15—17.
C. Depressa	§. 4.	— 18—21.

§. 1.

261 1. **Ch. mactum Poey.**

T. subperforata, oblonga, truncata, solida, lineis elevatis longitudinalibus et transversis minute reticulata, violaceo-fusca; sutura eleganter albo-denticulata; anfr. superst. 3 convexi, ultimus rotundatus; apertura subverticalis, fere circularis, intus livida; perist. incrassatum, continuum, breviter adnatum, superne angulatim ascendens, margine dextro superne recedente, repando, infra medium antrorsum producto, columellari dilatato, patente. — Operc. intus corneum, cartilagineum, extus calcareum, lamellis elevatis infundibuliformibus spiratum. — Long. 26, diam. 15 mill. Ap. intus 9 mill. longa, 8½ lata. (Coll. Nr. 110.)

Cyclostoma mactum Poey Mem. hist. nat. Cuba I. t. 8. f. 6—12.
— — *Chemn.* ed. II. N. 251. t. 36. f. 1. 2.
— *majusculum Morelet* mss.
Choanopoma majusculum Pfr. Consp. N. 223. p. 59.

Habitat in insula Cuba.

Obs. Huic sectioni species quatuor in genere *Licina* descriptas adnumerandas esse suspicor.

2. Ch. decussatum Lamarck. 262

T. subperforata, ovato-conica, truncatula, lineis obtuse elevatis spiralibus et striis confertis longitudinalibus subdecussata, parum nitida, luteo-rufescens, lineis longitudinalibus angulosis rufis eleganter picta; spira regulariter attenuata; sutura irregulariter crenulata; anfr. superst. 5 convexiusculi, ultimus ventrosus, basi violaceo-castaneus, antice subsolutus; apertura verticalis, subovalis; perist. duplex, album: internum vix porrectum, externum angulatim patens, superne angulatim productum. — Operc. testaceum, lamelloso-spiratum, nucleo subcentrali. — Long. 14 $^1/_2$, diam. 6 $^2/_3$ mill. Ap. 4 $^1/_3$ mill. longa. (Coll. Nr. 111.)

Cyclostoma decussata Lam. Hist. VI. p. 147. N. 18. Ed. Desh. p. 358. *)
— — *Deless.* Recueil t. 29. f. 6.
— *decussatum Chemn.* ed. II. N. 197. p. 178. t. 29. f. 10—13 (ex Deless.) et t. 38. f. 38. 39.
Cistula? decussata Gray Catal. Cycloph. p. 58. N. 6.
Choanopoma decussatum Pfr. Consp. N. 224.

Habitat in insula Portorico (Lamarck).

Obs. Conf. *Cyclostoma lunulatum Müll.* (N. 525.)

3. Ch.? granosum Adams. 263

T. perforata, turrito-oblonga, tenuiuscula, liris linealibus confertis, longitudinalibusque minoribus et confertioribus granulato-decussata, non nitens, subdiaphana, pallide cornea, rufonebulosa et praesertim in anfr. ultimo late maculata et strigata; spira elongata, vix curvilinearis, late truncata; sutura profunda, irregulariter et obsolete crenulata; anfr. superst. 4 convexi, ultimus penultimum vix superans; apertura verticalis, ovalirotundata; perist, flavescens, duplex: internum breve, incumbens, externum anfractui penultimo breviter adnatum, superne subangulatum, undique anguste retroflexum. — Operc. (ex Adams) lamella spirali, bene elevata, plus quam trium anfractuum munitum. — Long. 14, diam. 7 $^1/_2$ mill. Ap. intus 4 $^1/_2$, cum limbo 6 mill. longa, intus 3 $^2/_3$ mill. lata. (Coll. Nr. 112. Spec. authent.)

Cyclostoma granosum Adams Contrib. to Conch. N. 6. p. 93.
— — *Chemn.* ed. II. N. 373. t. 46. f. 10—12.

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*) T. ventricoso-conica, subperforata, decussatim striata, luteo-rufescente; lineis fuscis longitudinalibus flexuosis; anfr. 6 convexis; labro margine albo, reflexo. - Long. 7'''. (Lam. l. c.)

Choanopoma granosum Pfr. Consp. N. 225.

β. Decussatione magis nodulosa:

Cyclostoma nodulosum Adams Contrib. to Conch. N. 6. p. 91.

— *granosum var. Adams* ibid. N. 8. p. 140.

γ. Anfractu ultimo antice valde soluto, maculis purpureo-fuscis nullis.

Cyclostoma granosum var. Adams ibid. N. 8. p. 140.

Habitat in insula Jamaica.

Obs. Habitu simile *C. mirabili* et *Grayano.*

264 4. **Ch. pudicum Orbigny.** †

T. oblongo-conica, tenuis, violacea, decussatim striata; spira elevata, conica, apice acuminato-truncata; anfr. 5 convexi; suturae excavatae; apertura orbicularis; labrum dilatatum, acutum, reflexum, latere bilobatum, uno auriculato, altero umbilicum operiente. — Long. 15, diam. 11 mill. (Orb.)

Cyclostoma pudica Orb. Moll. Cub. I. p. 259. t. 22. f. 6—8. *)

— *pudicum Sow.* Thes. N. 147. p. 143. t. 31. f. 282? **)

— — *Chemn.* ed. II. N. 194. p. 177. t. 28. f. 19. (Ex Sow.)

Choanopoma pudicum Pfr. in Zeitschr. f. Mal. 1847. p. 107 Consp. N. 226.

— — *Gray* Catal Cycloph. p. 50. N. 8.

Habitat in insula Cuba.

Obs. Inter omnes species Cubenses mihi cognitas nulla cum descriptione et icone Orbignyana exacte quadrat; conferantur tamen *C. Ottonis Pfr.* et *tenebrosum Morelet.*

265 5. **Ch. pisum Adams.**

T. pervie umbilicata, globoso-conoidea, truncata, tenuis, liris obtusis confertis spiralibus et lineis elevatis confertioribus longitudinalibus decussata, non nitens, saturate fusca; sutura subsimplex; anfr. superst. 3—3½ convexi, ultimus latior, basi

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*) Bouche circulaire, entourée de bords larges, tranchans, réfléchis, se divisant en deux lobes au dessus de l'ombilic, l'un formant un oreillon, libre, obtus, l'autre se répliant sur l'ouverture ombilicale qu'il ferme hermétiquement. *L'opercule est remarquable par les lames de sa partie externe.* (Orb. l. c.)

**) T. ovato-pyramidali, crassiuscula, tenerrime decussata, rufo-fulvescente: apice decollato; anfr. 3 rotundatis; peritremate duplici, interno simplici, externo tenui, lato, reflexo, latere columellari emarginato, prope umbilicum incrassato et reflexo, umbilicum claudente. (Sow. l. c.)

validius spiraliter sulcatus; apertura verticalis, circularis; perist. rubrum, duplex: internum expansum, externum undique mediocriter reflexum, substriatum. — Operc. testaceum, anfr. 5 oblique striatis, marginibus liberis, nucleo subcentrali. — Long. 9, diam. $5^{2}/_{3}$ mill. Ap. $3^{1}/_{2}$ mill. diam. (Coll. Nr. 113.)

Cyclostoma pisum Adams Contrib. to Conch. N. 1. p. 9.
— — *Chemn.* ed II. N. 372. t. 46. f. 7—9.
— *virgineum Adams* Contrib. N. 6. p. 90.
Choanopoma pisum Pfr. Consp. N. 227.

Habitat in insula Jamaica.

§. 2.

6. Ch. pulchrum (Turbo) Wood. 266

T. umbilicata, globoso-conica, subdecollata, tenuis, longitudinaliter confertim costulato-striata, fulvida, fulvo obsolete maculata; anfr. 4—5 convexi, rapide accrescentes, penultimus obsolete 5-carinatus, ultimus superne sub-8-carinatus, circa umbilicum mediocrem, pervium carinis confertioribus, acute elevatis cinctus; apertura circularis; perist. duplex: internum acutum, breviter porrectum, externum late expansum, concentrice lamelloso-striatum, radiatim plicato-undulatum, ad anfractum penultimum non interruptum, modo angustatum, breviter adnatum. — Operc. testaceum, concavum, nucleo centrali, anfractuum marginibus erecto-patulis. — Diam. maj. 29, min. 22, alt. 25 mill. Ap. intus 12 mill. longa. (Mus. Cuming.)

Turbo pulcher Wood Ind. Suppl. t. 6. f. 4.
Cyclostoma pulchrum Gray in Wood suppl. p. 36.
— — *Sow.* Gen. N. 35. f. 2.
— — *Sow.* Spec. Conch. f. 134. 135.
— — *Reeve* Conch. syst. II. t. 184. f. 12.
— — *Sow.* Thes. N. 117. p. 132. t. 27. f. 143. 144. *)
— — *Chemn.* ed. II. N. 69. p. 75. t. 10. f. 1. 2.
Cyclophora pulchra 1 Swains. Malac. p. 336. (ex cit. Sow. gen.)
Choanopoma pulchrum Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 228.
— — *Gray* Catal. Cycloph. p. 49 N. 1.

Habitat in insula Jamaica.

*) T. suborbiculari, spira conoidali, apice mamillari (plerumque decollato); anfr. 3—5 ventricosis, rotundatis, spiraliter carinatis et transversim striatis; sutura profunda; apertura circulari; peritremate duplici, interno tenui, elevatiusculo, externo lato, reflexo, undulato; umbilico magno, spiraliter carinato et transversim striato. (Sow. l. c.)

267 7. **Ch. Lincina (Turbo) Linn.**

T. perforata, ovato-conoidea, plerumque decollata, striis argute elevatis longitudinalibus et spiralibus confertim decussata, scabra, tenuiuscula, violacea vel carneo-albida; sutura profunda; anfr. (testae integrae 6, truncatae) 4 teretes, ultimus minus oblique descendens; apertura subverticalis, circularis; perist. duplicatum: internum simplex, vix porrectum, externum late expansum, limbum subexcavatum, radiatum, margine denticulatum, superne et latere sinistro dilatatum, ad ventrem anfractus ultimi subexcisum formans. — Operc. testaceum, album, extus concavum, nucleo subcentrali, anfract. 5 oblique striatis, margine oblique erecto. — Diam. maj. 16, min. 12, alt. 13 mill. Ap. 6, cum limbo 11 mill. longa. (Coll. Nr. 114.)

Turbo Lincina Linn. Syst. ed. X. p. 765. n. 556.
— — *Linn.* Syst. ed. XII. p. 1239. n. 639. *)
— — *Schröt.* Einl. II. p. 43. n. 35.
— — *Gmel.* Syst p. 3605. n. 71.
— — *Dillw.* Descr. cat. II. p. 864. n. 117.
— — *Wood* ind. t. 32. f. 119?
Nerita licinia Müll. Hist. verm. II. p. 178. N. 364?? **)
Cyclostoma lincina Desh. in Lam. hist. VIII. p. 368. N. 32. ***)
— *Lincinum Sow.* Thes. N. 138. p. 140. t. 28. f. 148. 149. †)
— *Lincina Chemn.* ed. II. N. 34. p. 43. t. 6. f. 1. 2.
Choanopoma lincina Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 229.
— *lincinum Gray* Catal. Cycloph. p. 49. N. 3.
Lister hist. t. 26. f. 24. ††)

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*) T. oblonga, obtusa, rugoso-striata, apertura limbo dilatato, plano, crenato. Habitat in Jamaica terrestris. (Linn. l. c.)

**) T. ovata, incarnata, striata; apertura in puncto adnata. — Long. 8, lat. $5^1/_2$ lin. — Testa dura, pellucida, intus et extus incarnato-rufa, transversim et spiraliter striata, at minus distincte, quam in *N. elegante.* Anfractus 5. Apertura subcircinnata margine aliquantum dilatato, vix, seu in puncto, anfractum vicinum tangente. Foramen distinctum quidem, at non pervium. Limbus latus et striatus autorum in nostra deest, at incrementum testae nondum absolutum videtur (Müll. l. c.)

***) T. ovata, incarnata, striata; apertura circulari; labro dilatato, lato, plano, striato, fimbriato. — Long. 18—20 mill. (Desh. l. c.)

†) T. oblonga, pallida, spira decollata; anfr. 3-4 teretibus, confertissime decussato-striatis, asperis; sutura profunda; apertura circulari; peritremate dilatato, late expanso, planiusculo, crenato, superne nonnunquam reflexo; umbilico parvo; operculo testaceo, lamella externa spirali, reflexa, striata (Sow. l. c.)

††) Buccinum tenuissime striatum, ipso ore circinato, cui etiam limbus latus et striatus. (List. l. c.)

Petiv. Gazoph. t. 118. f. 11.
Sloane Hist. Jamaic. II. t. 240. f. 12. 13.
Browne Jamaica t. 40. f. 5.

Habitat in insula Jamaica.

8. **Ch. fimbriatulum Sowerby.** 268

T. umbilicata, globoso-conoidea, decollata, tenuis, spiraliter confertim costata, lineis longitudinalibus confertissimis subdecussata, haud scabra, lutescenti-albida; sutura profunda; anfr. superst. 3—$3^1/_2$ rotundati, celeriter accrescentes; umbilicus mediocris, pervius; apertura subverticalis, circularis; perist. duplicatum: internum vix prominens, externum limbum latissimum, continuum, ad anfr. penultimum subemarginatum, radiatim plicato-undulatum formans. — Operc. testaceum, cinereum, extus vix concavum, nucleo subcentrali, anfr. 5 oblique striatis, margine *breviter soluto, fere incumbente.* — Diam. maj. 17, min. 12, alt. 12 mill. Ap. intus 6, cum limbo 11 mill. longa. (Coll. Nr. 115.)

Cyclostoma fimbriatulum Sow. in Tank. Catal. App. p. VIII. N. 1015. *)
— — *Sow.* Spec. Conch. f. 136.
— — *Reeve* Conch. syst. II. t. 183 f. 5.
— — *Sow.* Thes. N. 118. p. 132. t. 28. f. 145. 146. **)
— — *Chemn.* ed. II. N. 70. p. 76. t. 10. f. 3—5.
Choanopoma fimbriatulum Pfr. in Zeitschr. f. Mal. 1847. p. 107. Consp. N. 230.
— — *Gray* Catal. Cycloph. p. 49. N. 2.
Turbo Lincina Chemn. Conch. IX. P. II. p. 54. t. 123. f. 1060 a? ***)
Annularia fimbriata Schumacher Essai p. 196?

Habitat in insula Jamaica.

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*) T. obtuse conica, umbilicata, anfractibus 4 ventricosis, transversim sulcatis, creberrime decussatis, suturis profundis; labii margine plicato-fimbriato: long. $^4/_{10}$, lat. $^6/_{10}$ unc. (Sow. l. c.)

**) T. globoso-conoidea, albida, spira breviuscula, decollata: anfr. 4—5 rotundatis, spiraliter sulcatis, sulcis confertissime decussatis, asperis; sutura profunda, apertura circulari; peritremate duplici, interno simplicissimo, externo late expanso, undulato; umbilico magno; operculo testaceo, spirali, anfractibus intus laevibus, extus lamella spirali reflexa (Sow. l. c.)

***) T. subturrita, perforata, anfractibus transversim sulcatis, ore rotundo, fimbriato, labro lato striato seu circinnato. (Chemn. l c)

269 9. **Ch. Chittyi Adams.**

T. umbilicata, globoso-conoidea, vix truncata, tenuis, spiraliter confertim et acute costata, lineis longitudinalibus confertissimis decussata, scabra, fulvido-albida, interdum lineis rufis obsolete cincta; spira convexo-conica; sutura profunda; anfr. 4—4 $^1/_2$ perconvexi, ultimus basi remotius liratus; umbilicus mediocris, pervius; apertura verticalis, circularis; perist. duplicatum: internum porrectum, externum limbum latissimum, concentrice imbricato-striatum, undulato-plicatum, rufo-radiatum, margine confertim crenulatum, superne angulatim productum, ad anfr. penultimum emarginatum formans. — Operc. testaceum, nucleo subcentrali, anfr. sub-5, usque ad *marginem latum, fere verticaliter erectum, superne subreflexum* oblique ruditer striatis. — Diam. maj. 17, min. 12, alt. 12 mill. Ap. intus 6, cum limbo 11 $^1/_2$ mill. longa. (Coll. Nr. 116.)

Cyclostoma Chittyi Adams Contrib. to Conch. N. 1. p. 1. N. 6. p. 89.
— — *Chemn.* ed. II. N. 374. t. 46. f. 13. 14.
Choanopoma Chittyi Pfr. Consp. N. 231.

Habitat in insula Jamaica.

Obs Differt a peraffini *Ch. fimbriatulo* liris spiralibus multo confertioribus, in decussatione subspinoso-asperis, perist. interno porrecto et praesertim operculo!

270 10. **Ch. scabriculum Sowerby.**

T. umbilicata, conoideo-globosa, vix decollata, tenuis, liris spiralibus confertis et lineis longitudinalibus confertioribus argute reticulata, fulvido-alba, interdum lineis rufis obsolete cincta; spira convexa; anfr. superst. 4—4 $^1/_2$ rotundati, sensim accrescentes, ultimus teres, in umbilico mediocri, subcompresso, vix pervio distinctius et remotius spiraliter sulcatus; apertura verticalis, circularis; perist. duplicatum: internum breve, externum limbum tenuem, undique late expansum, superne sinuoso-auriculatum, ad anfr. penultimum emarginatum, concentrice imbricato-striatum, undato-plicatum et fusco-radiatum formans. — Operc. testaceum, cinereum, extus concavum, nucleo subexcentrico, anfr. 4 oblique striatis, *extimo perdilatato*, omnium margine *alte elevato*, *superne expanso*. — Diam. maj. 17, min. 12, alt. 11 mill. Ap. intus 6 $^1/_3$, cum limbo 11 mill. longa. (Coll. Nr. 117.)

Cyclostoma scabriculum Sow. Thes. N. 119. p. 133. t. 28. f. 147. *)

*) T. globoso-conoidea, albida, spira breviuscula, decollata; anfr.

Cyclostoma scabriculum Chemn. ed. II. N. 71. p. 77. (ex parte.) N. 375. t. 46. f. 15. 16.
— *amabile Adams* Contrib. to Conchol. N. 1. p. 2!
Choanopoma scabriculum Pfr. in Zeitschr. f. Mal. 1847. p. 107. et Consp. N. 232.
— — *Gray* Catal. Cycloph. p. 50. N. 4.

Habitat in insula Jamaica.

11. Ch. Hillianum Adams. 271

T. umbilicata, globoso-conoidea, tenuis, costulis spiralibus et longitudinalibus confertis regulariter clathrata, scabra, fulvo-albida, rufo interrupte fasciata vel lineata; spira convexo-conoidea, vix truncatula; anfr. superst. 4 modice convexi, ultimus teres, circa umbilicum mediocrem, apertum, regularem validius spiraliter liratus; apertura subverticalis, circularis; perist. duplicatum: internum vix porrectum, expansiusculum, externum limbum formans latum, angulatim expansum, confertim radiato-plicatum, fusculo-radiatum, superne sinuoso-auriculatum, ad anfr. penultimum emarginatum. — Operc. testaceum, album, anfr. 4 sensim accrescentibus, margine *late elevato, superne anguste angulatim reflexo*, oblique striato. — Diam. maj. 15, min. $11^1/_2$, alt. 10 mill. Ap. intus $5^1/_2$, cum limbo 10 mill. longa. (Coll. Nr. 110. Spec. authent.)

Cyclostoma Hillianum Adams in Proc. Bost. Soc. 1845. p. 11. *)
— *scabriculum Chemn.* ed. II. Cycl. t. 10. f. 6—8.
Choanopoma Hillianum Pfr. in Zeitschr. f. Mal. 1847. p. 107. et Consp. N. 233.
— — *Gray* Catal. Cycloph. p. 52. N. 21.

β. Testa alba, fusco-cingulata, anfractu ultimo antice brevissime soluto. (Spec. authent.)
Cyclostoma amandum Adams Contrib. to Conch. N. 1. p. 3. **)

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rotundatis, spiraliter sulcatis, sulcis confertissimis decussatis, asperis; sutura distincta; apertura circulari; peritremate duplici, interno tenui, externo late expanso, undulato, postice undulato-lamellari; umbilico mediocri; operculo lamella levata spirali. (Sow. l. c.)

*) T. subdepressa, candida, fasciis angustis fuscis interruptis ornata, decollata, anfr. reliquis 5 vix connexis, aculeis elongatis decussatim seriatis elegantissime insculptis; apertura ab anfr. penultimo remota; labro latissime planulato, plicato; umbilico lato, profundo; operc. albo, lamella spirali procera ornato. Div. 110°; alt. 0,32, lat. max. 0,47, min. 0,37 poll. (Adams l. c.)

**) Shell short, globose-conic; dingy white with three principal and often other brown more or less interrupted spiral bands; with quite regular prominent lamellae of growth, which are decussated and aculeated by very

γ. Anfractu ultimo paulo longius soluto. (Spec. authent.)

Cyclostoma aculeosum Adams Contrib. to Conch. N 1. p. 2. *)

Habitat in insula Jamaica.

Obs. Differt a *Ch. scabriculo* forma magis depressa, decussatione regulari, umbilico et operculo.

272 12. **Ch. spinulosum Adams.**

T. umbilicata, globoso-conica, tenuiuscula, sordide alba, fusco irregulariter strigata et subfasciata, liris spiralibus subconfertis, obtusis, costulisque confertis, acutis clathrata; spira conica, plerumque truncata; anfr. (inclusis apicalibus) 5 perconvexi, sensim accrescentes, ultimus teres, antice breviter solutus; umbilicus mediocris, pervius; apertura circularis, axi parallela; perist. duplex: internum porrectum, striatum, externum breviter reflexum, radiatum, superne subauriculatum. — Diam. maj. $14^1/_2$, min. 11, alt. (trunc.) 11 mill. Ap. 6 mill. longa. (Mus. Cuming. Spec. authent.)

Cyclostoma spinulosum Adams Contrib. to Conchol. N. 1. p. 1. **)

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numerous close-set spiral lines, that appear only on the three last whorls and are most conspicuous just below the suture; spire with very convex outlines; apex truncate with the loss of two whorls; three and one half remaining, very convex, with a deep suture; last whorl a little detached from the penult whorl near the aperture, but soldered to it by the outer peritreme; aperture exactly circular, inner peritreme much produced, regularly striated on the outside parallel to the edge; outer peritreme finely scolloped with the termination of the spiral lines; umbilicus extending through to the truncate apex, and exhibiting all the whorls. Mean divergence 88°; length 0,55, greatest breadth 0,63, least breadth 0,43 inch. (Ad. l. c.)

*) Shell short, globose-conic; dingy white; with crowded transverse thin perpendicular lamellae, which are decussated by numerous thin prominent spiral lines, with the points of intersection produced into slender spines, especially in the angle of the deep suture, the spiral lines appearing on the last three whorls; spire with very convex outlines; apex truncate with the loss of two whorls, three and one half whorls remaining, very convex; last whorl a little detached from the penult whorl near the aperture, but soldered to it by the outer peritreme; aperture exactly circular; inner peritreme well produced; outer peritreme well expanded, scolloped and striated as in the preceding (*C. spinulosum*); umbilicus moderately wide, extending through the truncate apex The spiral lamella of the operculum is extremely high and but slightly reflected outwards. Mean divergence 77°; length 0,56, greatest breadth 0,6, least breadth 0,38 inch. (Ad. l. c.)

**) Mean divergence 75°; length 0,55, greatest breadth 0,55, least breadth 0,38 inch. (Adams l. c.)

Choanopoma spinulosum Pfr. Consp. N. 234.

Habitat in insula Jamaica.

Obs. Cl. Auct. in Catal. moll. Jamaic. Apr. 1851 ad *C. lincinellum Lam.* synonymum laudat: *C. spinulosum Ad.?*

13. Ch. mite Pfr. 273

T. umbilicata, turbinato-globosa, breviter truncata, liris obtusis spiralibus munita, costulis membranaceis confertissimis decussata, unicolor corneo-albida; spira convexa, brevis; anfr. superst. 3½ convexi, ultimus teres, circa umbilicum mediocrem, pervium distinctius spiraliter liratus; apertura verticalis, circularis; perist. duplex: internum vix porrectum, externum undique aequaliter dilatatum, patens, obsolete undulatum, concentrice striatum, superne subangulatum, ad anfr. penultimum subemarginatum. — Operc.? — Diam. maj. 13, min. 10, alt. 9 mill. Ap. intus 5, cum limbo 7½ mill. longa. (Mus. Cuming.)

Cyclostoma mite (Choanopoma) *Pfr.* in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 332. t. 42. f. 7. 8.
Choanopoma mite Pfr. Consp. N. 235. p. 59.

Habitat in insula Jamaica.

Obs. Differt ab omnibus praecedentibus superficie minime scabra, limbo peristomatis externo aequaliter angusto, vix undulato.

14. Ch.? Pretrei Orbigny. 274

T. umbilicata, turbinata, tenuis, lamellis longitudinalibus distantibus, seriatim spiniferis munita, unicolor alba; spira conica, saepe truncatula; anfr. 4—6 convexi, ultimus antice solutus, oblique descendens; umbilicus mediocris, pervius, intus spiraliter liratus; apertura subcircularis; perist. duplicatum: internum acutum, breviter porrectum, externum undulatum, horizontaliter anguste expansum. — Operc.? — Long. 8, diam. 5 mill. Ap. 3 mill. diam. (Mus. Cuming.)

Cyclostoma Pretrei Orbigny Moll. Cub. I. p. 260. t. 22. f. 9—11. *)

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*) T. conica, tenui, diaphana, pellucida, alba, umbilicata, longitudinaliter lamellosa, transversim spinosa; spira conica, elevata; anfr. 6 convexis, ultimo soluto; apertura rotunda; labro tenui, foliaceo, undulato-crenulato. — Long. 9 mill. Diam. 6 mill. — Coquille profondément ombiliquée, ornée en long de lames saillantes espacées et, en travers, de 10—11 lignes transversales de pointes épineuses, placées sur les lames. Spire conique, tronquée à son sommet, composée de 6 tours très-convexes, dont le dernier,

Cyclostoma Pretrei Sow. Thes. N. 136. p. 139. t. 31. f. 260. *)
— — *Chemn.* ed. II. N. 166. p. 154. t. 21. f. 9—12.
Choanopoma Pretrei Gray Catal. Cycloph. p. 51. N. 13.
— ? — *Pfr.* Consp. N. 236.

Habitat in regionibus interioribus insulae Cubae.

§. 3.

275 15. **Ch. interruptum Lamarck.**

T. perforata, ovato-conica, apice plerumque truncatula, tenuiuscula, laevigata, nitida, albida, fasciis luteis interruptis 6—8 ornata; anfr. 5 ventrosi, supremi longitudinaliter costulati, violaceo-fusci, ultimus teres; apertura subverticalis, circularis, intus concolor; perist. subduplicatum: internum breve, obsoletum, externum snbcontinuum, ad anfractum penultimum arcuatim excisum, undique late expansum, antice subexcavatum, margine supero angulato, subinflexo, columellari dilatato, patente, umbilicum angustum non tegente. — Operc. testaceum, paucispirum, album, margine anfractus secundi libero. — Long. 23, diam. 15 mill. Ap. intus 9 mill. longa. (Coll. Nr. 119.)

Cyclostoma interrupta Lam. Hist. VI. p. 145. N. 10. Ed. Desh. VIII. p. 356. **)
— *ambigua Deless.* Recueil t. 29. f. 5. Non Lam.
— — *Reeve* Conch. syst. II. t. 183. f. 8.
— *interruptum Voigt* in Cuv. Thierr. III. p. 178.
— — *Sow.* Thes. N. 141. p. 141. t. 28. f. 152. ***)
— — *Chemn.* ed. II. N. 58. p. 63. t. 9. f. 1. 2.
Choanopoma interruptum Gray Catal. Cycloph. p. 53. N. 27.
— — *Pfr.* Consp. N. 237.

Habitat in insula Jamaica (Adams).

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près de la bouche, est entièrement séparé des autres et latéral à l'axe. Bouche arrondie, entourée de bords minces, foliacés, ondulés, réfléchis et crénelés sur leurs bords. Couleur blanc uniforme. (Orb. l. c.)

*) T. globoso-pyramidali, tenui, scabra, alba, spira acuminata, apice decollato, fusco; anfr 4 rotundatis, transversim striatis et costatis, costis minutis subdistantibus, muricatis, ultimo prope aperturam disjuncto; sutura profunda; apertura circulari; peritremate duplici, interno simplici, externo angusto, reflexo, undulato; umbilico magno, spiraliter costato. (Sow. l. c.)

**) T. brevi, ventricoso-conoidea, apice obtusa, umbilicata, tenui, laevi, pellucida, alba; fasciis luteis transversis interruptis; labro margine reflexo, dilatato, patente. — Long. $7^1/_2$, lat. 8'''. (Lam. l. c.)

***) T. tenui pellucida, ovato-conoidea, apice obtuso, fusco; anfr. 4—5 ventricosis, laevibus, albidis, fasciis luteis, spiralibus, interruptis; sutura profunda; apertura circulari; peritremate interno tenui levatiusculo, externo reflexo, dilatato-patente; umbilico parvo. (Sow.)

16. **Ch. lima Adams.** 276

T. umbilicata, oblongo-turbinata, apice truncata, lineis elevatis confertis spiralibus et percurrentibus longitudinalibus arcte clathrata, scabriuscula, purpurascenti-brunnea; anfr. superst. 4—4½ convexi, ultimus ad suturam et ad umbilicum mediocrem, subcompressum, non pervium liris nonnullis spiralibus validioribus munitus; apertura fere verticalis, basi subproducta, subcircularis; perist. duplicatum: internum expansiusculum, vix porrectum, externum late expansum, ad anfractum penultimum emarginatum, undique concaviusculum, concentrice substriatum, superne auriculato-dilatatum. — Operc. testaceum, sordide album, extus concavum, anfr. 4 oblique striatis, margine libero, oblique patente. — Long. 21, diam. 14 mill. Ap. 8, cum limbo 13 mill. longa. (Coll. Nr. 120.)

Cyclostoma lima Adams in Proc. Bost. Soc. II. 1845. p. 11. *)
— — *Pfr.* in Zeitschr. f. Malak. 1846. p. 46.
— — *Chemn.* ed. II. N. 35. p. 44. t. 6. f. 3—6.
— — *Sow.* Thes. Suppl. N. 197. p. 167 *. t. 31 B. f. 324. 325. **)
Choanopoma lima Pfr. in Zeitschr. f. Mal. 1847. p. 107. et Consp. N. 238.
— — *Gray* Catal. Cycloph. p. 50. N. 5.

β. Paulo minus, fulvum, liris concentricis subtilioribus. (Spec. authent.)
Cyclostoma Blandianum Adams Contrib. to Conchol. N. 1. p. 3. ***)

Habitat in insula Jamaica.

17. **Ch. lincinellum Lamarck.** 277

T. rimato-perforata, compresso-conica, tenuis, longitudinaliter confertissime striata, striis obsoletis spiralibus; in basi

*) *C. lincinae* affine, t. perexilius decussata, aculeis brevioribus, subtus costulis revolventibus majoribus instructa; labro nunquam crenulato. Div. 56°; alt. 0,9, lat. max. 0,7, lat. min. 0,45 poll. (Ad. l. c.)

**) T. oblongo-pyramidali, decollata, fusca; anfr. 4 teretibus, confertim decussato-striatis, asperrimis; sutura lata, profunda; apertura circulari; peritremate dilatato, late expanso, lamellari, superne latiori; umbilico majusculo, spiraliter tricarinato; operculo testaceo; lamella externa spirali, reflexa, striata. (Sow. l. c.)

***) Shell like *C. lima Ad.*, but the spiral lines are less distinct, and both the transverse and spiral lines are finer and more closely set; the shell is shorter and the whorls are narrower; color pale brown to white, with more or less distinct interrupted spiral brown lines; outer peritreme very much expanded, especially on the left side, slightly crenulated, above produced into a broad sinus; umbilicus narrow and extending through the truncate apex. — Mean divergence 60° to 62°; length 0,7, greatest breadth 0,65, least breadth 0,45 inch. (Adams l. c.)

distinctioribus subdecussata, sericina, cinereo-fulvida, fasciis interruptis fusculis obsolete ornata; spira conica, saepe truncatula; anfr. 5 rotundati, ultimus horizontaliter protractus, latere subcompressus, antice solutus; apertura verticalis, circularis; perist. liberum, continuum, duplicatum: internum acutum, breviter porrectum, externum undique subaequale, horizontaliter breviter expansum. — Operc. testaceum, album, extus concavum, nucleo subcentrali, anfractuum margine modice elevato. — Diam. maj. 14, min. 10, alt. 12 mill. Ap. 6, cum limbo 7$^1/_2$ mill. longa. (Coll. Nr. 121.)

Cyclostoma lincinella Lam. Hist. VI. p. 148. N. 22. Ed. Desh. VIII. p. 359. N. 21. *)
— — *Chemn.* ed. II N. 164. p. 153. t. 21. f. 3—5.
— *lincina Lam.* Encycl. méth. t. 461. f. 2.
— *compressum Gray* in Wood suppl. p. 36.
— *lincinellum Sow.* Thes. N. 137. p. 140. t. 28. f. 150. 151. **)
Turbo compressus Wood Ind. Suppl. t. 6. f. 42.
Cyclophora lincina Swains. Malac. p. 336.
Choanopoma lincinella Pfr. in Zeitschr. f. Malak. 1847. p. 107.
— *lincinellum Gray* Catal. Cycloph. p. 54. N. 28.
— — *Pfr.* Consp. N. 239.

Habitat in insula Jamaica (Humphrey, Sowerby), Haiti (Mus. Cuming.).

§. 4.

278 18. **Ch.? alatum Pfr.**

T. umbilicata, conoideo-depressa, solidula, oblique confertim et inaequaliter costulata, vix diaphana, albida, fasciis angustis pallidissime corneis variegata; spira brevissime conoidea, acutiuscula; sutura simplex; anfr. 4 modice convexi, ultimus subteres, antice vix descendens, lilaceo-nebulosus; umbilicus latus, apertus; apertura diagonalis, subcircularis, intus lilaceo-fuscula; perist. subduplex, latere dextro et basali connatum,

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*) T. orbiculato-conica, umbilicata, tenui, longitudinaliter subtilissime striata, cinerea; spira brevi, acuta; labro margine reflexo, lato, patente. — Diam. 6'''. (Lam. l. c.)

**) T. globoso-conoidea, pallida, seriatim fusco-maculata, spira subacuminata; anfr. 4—5 rotundatis, subtilissime striatis, ultimi terminatione subporrecto, disjuncto; sutura profunda; apertura circulari; peritremate duplici, continuo, interno simplici porrecto, externo angusto, expanso; umbilico parvo; operculo spirali, anfr. paucis, extus lamella spirali, reflexa. (Sow. l. c.)

expansum, externum superne alatim dilatatum, latere sinistro subreflexum. — Operc.? — Diam. maj. 16, min. 13, alt. 8 mill. Ap. intus $6^1/_2$ mill. longa, 6 lata. (Mus. Cuming.)

Cyclostoma alatum Pfr. in Proc. Zool Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 326. t. 41. f. 35—37.
Choanopoma? alatum Pfr. Consp. N. 240. p. 60.

Habitat S. Yago de Cuba.

19. Ch.? solutum Richard. 279

T. umbilicata, depressa, longitudinaliter confertim filoso-costata, sericea, diaphana, albida, lineis rufis interruptis ornata; spira parum elevata, mucronata; sutura subcanaliculata, obsolete denticulata; anfr. 5 convexi, ultimus teres, antice descendens, solutus, basi in umbilico latissimo spiraliter sulcatus; apertura obliqua, fere circularis; perist. duplex: internum continuum, rectum, prominens, externum album, undique rectangule patens, superne dilatatum, ad anfractum penultimum inflexo-adnatum. — Operc.? — Diam. maj. 13, min. 10, alt. $5^1/_2$ mill. Ap. intus $4^2/_3$ mill. longa. (Mus. Cuming.)

Cyclostoma solutum Rich. in sched. Cuming.
— — *Chemn.* ed. II. N. 293. t. 39. f. 8—10.
Choanopoma? solutum Pfr. Consp. N. 241. p. 60.

Habitat in insula Haiti.

20. Ch. Adolfi Pfr. 280

T. umbilicata, conoideo-semiglobosa, tenuiuscula, lineis elevatis radiantibus et spiralibus regulariter granulato-decussata, diaphana, fulvida, lineis interruptis rufis cincta; spira convexo-conoidea, mucronulata; sutura irregulariter et remote nodoso-crenata; anfr. $4^1/_2$ convexi, ultimus rotundatus, circa umbilicum mediocrem liris pluribus carinaeformibus munitus; apertura subobliqua, circularis; perist. duplex: internum continuum, breviter porrectum, externum patens, concentrice striatum, subundulatum, rufo-radiatum, superne in auriculam fornicatam dilatatum. — Operc. normale. — Diam. maj. 8, min. $6^1/_4$, alt. $4^2/_3$ mill. Ap. c. perist. $4^1/_2$ mill. longa, 4 lata. (Coll. Nr. 122.)

Cyclostoma Adolfi (Choanopoma) Pfr. in Proc. Zool. Soc. 1852. 9 Mart.
— — *Chemn.* ed. II. N. 397. t. 48. f. 5—8.

Habitat in insula Haiti (Sallé).

281 **21. Ch. tentorium Pfr.**

T. umbilicata, conoidea, solidiuscula, liris confertis spiralibus, lineisque longitudinalibus spinoso-reticulata, sericina, pallide fulva, interdum rubro-punctata; spira conoidea, acutiuscula; sutura regulariter crenulata; anfr. 5 convexi, ultimus teres; umbilicus latus, conicus; apertura obliqua, subangulato-circularis; perist. duplex: internum breviter porrectum, externum campanulato-patens, margine subundulato. — Operc. testaceum, arctispirum, margine anfractuum acuto, erecto. — Diam. maj. $6\frac{1}{2}$, min. $5\frac{1}{2}$, alt. 4 mill. Ap. c. perist. 3 mill. longa et lata. (Coll. Nr. 123.)

Cyclostoma tentorium Pfr. in Zeitschr. f. Mal. 1850. p. 77.
— — *Chemn.* ed. II. N. 279. t. 38. f. 16—18.
Choanopoma tentorium Pfr. Consp. N. 242.

Habitat in insula Haiti (Sallé).

XVIII. Adamsiella Pfr.

Operculum circulare, tenue, subcartilagineum, anfractibus paucis sensim crescentibus; margine anfractuum sublibero, nucleo subcentrali. Testa pupaeformis vel oblongo-turrita; apertura parvula, subcircularis; peristoma plerumque duplicatum, magis minusve expansum vel reflexum.

Adamsiella Pfr. in Zeitschr. f. Malak. 1851. p. 155. Consp. p. 27.

Conspectus specierum.

A. Pupaeformes		
1. Anfractu ultimo antice non soluto.		
a. Sutura simplice	§. 1.	Nr. 1— 3.
b. Sutura crenata	§. 2.	— 4— 5.
2. Anfractu ultimo antice soluto .	§. 3.	— 6— 8.
B. Oblongo-turritae	§. 4.	— 9—12.

§. 1.

282 **1. A. mirabilis (Turbo) Wood.**

T. umbilicata, oblongo-conica, tenuis, lineis confertis elevatis spiralibus et confertioribus longitudinalibus regulariter

decussata, minime scabra, diaphana, non nitens, pallidissime cornea, fasciis rufis subinterruptis et infra suturam simplicem, profundam maculis subquadratis rufis ornata; spira convexo-conica, breviter truncata; anfr. superst. 4 rotundati, ultimus penultimum vix superans; umbilicus apertus, pervius; apertura verticalis, subcircularis; perist. album, duplex: internum adnatum vel breviter porrectum, externum continuum, anfractui penultimo brevissime adnatum, undique aequaliter anguste expansum vel reflexiusculum, superne subangulatum. — Operc. normale. — Long. 15, diam. $8^{1}/_{3}$ mill. Ap. intus $4^{1}/_{3}$, cum limbo 6 mill. longa. (Coll. Nr. 124.)

Turbo mirabilis Wood Ind. Suppl. t. 6. f. 22.
Cyclostoma mirabile Gray in Wood suppl. p. 36. Nec Sow.
— — *Chemn.* ed. II. N. 127. p. 123. t. 14. f. 17—19.
— *mirabilis Desh.* in Lam. hist. VIII. p. 371. N. 40.' *)
— *decussatulum Adams* Contrib. to Conch. N. 1. p. 4. **)
Choanopoma mirabile Gray Catal. Cycloph. N. 16. p. 51.
Adamsiella mirabilis Pfr. Consp. N. 243.

Habitat in insula Jamaica.

2. A. miranda Adams. 283

T. perforata, oblongo-conica, truncata, tenuis, minutissime reticulata, non nitens, albida, fusco seriatim maculata: maculis ad suturam majoribus, quadratis; anfr. superst. $4^{1}/_{2}$—5 perconvexi, ultimus teres, non solutus; umbilicus angustissimus, vix pervius; apertura verticalis, subcircularis; perist. duplex: internum stricte porrectum, externum dilatatum, rectangule patens, concentrice striatum, superne auriculatum, ad anfractum penultimum et latere sinistro excisum. — Operc.? — Long. 17,

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*) T. turbinata, elongato-conica, basi profunde umbilicata, tenue et eleganter striata, albo-grisea; zonis 3 fuscis, subarticulatis ornata; anfr. 8 convexissimis; apertura circulari; limbo tenui, lato, plano circumdata. — Long. 14, lat. 8 mill. — Habitat? (Desh. l. c.)

**) Shell moderately elongate, ovate conic; whitish, with brown spiral bands, which are more distinct on the lower whorls; elegantly and finely decussated with numerous close-set transverse strong rounded raised lines; spire with convex outlines: apex truncate with the loss of two or two and one half whorls; four and one half to five whorls remaining, convex, with a deep suture; aperture nearly circular; inner peritreme moderately produced and reflected; outer peritreme moderately expanded, concentrically striated; umbilicus narrow, but extending through the truncate apex. Mean divergence about 50°; length 0,58, greatest breadth 0,42, least breadth 0,32 inch. (Adams l. c.)

diam. 9 mill. Ap. intus 5, cum limbo 8 mill. longa. (Coll. Nr. 125. Spec. authent.)

Cyclostoma mirandum Adams Contrib. to Conch. N. 1. p. 4.
— — *Chemn.* ed. II. N. 343. t. 43. f. 8. 9.
— *mirabile Sow.* Thes. N. 153. p. 145. t. 28. f. 164? *)
Adamsiella miranda Pfr. Consp N. 244.

Habitat in insula Jamaica.

284 **3. A. pulchrior Adams.**

T. perforata, pupaeformis, ovato-turrita, solidula, lineis confertis vix impressis longitudinalibus et spiralibus subtilissime decussata, sericea, pallide cornea, fascia 1 lata saturate castanea ornata; spira convexo-elongata, breviter truncata; sutura levis, simplex; anfr. superst. 4—4½ convexiusculi, ultimus penultimo vix major; umbilicus punctiformis, pervius; apertura subverticalis, oblongo-rotunda, intus concolor; perist. album, continuum, breviter adnatum, incrassatum, undique breviter retroflexum, superne subangulatum. — Operc. normale. — Long. 12, diam. 7½ mill. Ap. intus 4, cum perist. 5 mill. longa, intus 3⅓ mill. lata. (Coll. Nr. 126.)

Cyclostoma Binneyanum Adams in sched.
— — *Pfr.* in Zeitschr. f. Malak. 1846. p. 47.
— — *Chemn.* ed. II. N. 128. p. 124. t. 14. f. 12—14.
— *pulchrius Adams* in Proc. Bost. Soc. II. 1845. p. 11. **)
Conf. Contrib. to Conch. N. 8. p. 129.
Choanopoma Binneyanum Gray Catal. Cycloph. p. 52. N. 20.
Adamsiella pulchrior Pfr. Consp. N. 245.

β. Testa corneo-fuscescente, obsolete fasciata et maculata, striis decussantibus paulo distinctioribus.

Habitat in insula Jamaica.

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*) T. oblongo-pyramidali, tenui, pellucida, albida, fusco interruptim fasciata, spira subacuminata, obtusa, plerumque decollata; anfr. 4—7 rotundatis, transversim striatis; apertura circulari, peritremate reflexo, dilatato-patente; umbilico magno; operculo spirali, tenui, anfractibus 5, extus lamina lata trivoluta conspicua. (Sow. l. c.)

**) T. fascia lata, rubro-fusca ornata, decollata; anfr. 2½ perditis; anfr. reliquis 4, exilissime regulariter et elegantissime decussatis; labro crasso, rotundato, albo; umbilico perangusto, profundo; operc. tenui. Div. 48°; alt. 0,56, lat. max. 0,38, min. 0,3 poll. (Adams l. c.)

§. 2.

4. A. variabilis Adams. 285

T. anguste umbilicata, ovato-pyramidalis, plerumque decollata, plicis longitudinalibus confertissimis striisque transversis decussata, lutescens, seriatim fusco-maculata, superne saepius violacea; sutura irregulariter et distanter crenata; anfr. superst. plerumque 4 convexi, ultimus teres; apertura verticalis, circularis; perist. subduplex: internum breve, vix porrectum, externum continuum, undique subaequaliter patens, anfractui penultimo appressum, superne angulatum. — Operc. normale. — Long. 14, diam. 8 mill. Ap. intus 4, cum limbo 6 mill. longa. (Coll. Nr. 127.)

Cyclostoma articulatum Sow. Thes. N. 144. p. 142. t. 28. f. 160. 161. *) Nec Gray.
— *variabile Adams* Contrib. to Conch. N. 1. p. 3. (Ex spec. authent.)
— — *Chemn.* ed. II. N. 276. t. 38. f. 7. 8.
— *mutatum Adams* Contrib. to Conch. N. 9. p. 154.
Choanopoma articulatum Pfr. in Zeitschr. f. Mal. 1847. p. 107.
— — *Gray* Catal. Cycloph. p. 52. N. 17.
Adamsiella variabilis Pfr. Consp. N. 246.

Habitat in Demerara (Sowerby), Jamaica (Adams).

Obs. Variat striis decussantibus magis minusve confertis et elevatis et peristomate magis minusve incrassato, reflexo, saepe concentrice striato.

5. A. Grayana Pfr. 286

T. anguste umbilicata, ovato-pupaeformis, decollata, saturate violaceo-fusca; sutura remote albo-nodulosa; anfr. superst. $4^1/_2$ convexi, supremi valide costulati, striis spiralibus tenuibus decussati, sequentes regulariter et confertim decussati, ultimus penultimum non superans; apertura verticalis, circularis; perist. subduplicatum, album, flavum vel rubellum: internum simplex, breviter porrectum, externum anfractui penultimo brevissime adnatum, undique aequaliter plane expansum. — Operc. nor-

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*) T. oblonga, pyramidali, spira subacuminata, plerumque decollata; anfr. 4—7 rotundatis, transversim striatis, albidis et articulatim fusco-marmoratis; sutura distincta; apertura subcirculari; peritremate angusto, reflexo; umbilico mediocri; operc. testaceo, tenui, extus lamina spirali conspicua. (Sow. l. c.)

male. — Long. 14, diam. 8 mill. Ap. 4½, cum limbo 6⅔ mill. longa. (Coll. Nr. 128.)

Cyclostoma obscurum Gray mss. olim. Nec Drap.
— — *Sow.* Thes. N. 157. p. 147. t. 28. f. 169. *)
— *Grayanum Pfr.* in Zeitschr. f. Malak. 1846. p. 43.
— — *Adams* Cat. shells. Jan. 1847. Conf. Contrib. to Conch. N. 1. p. 15.
— — *Chemn.* ed. II. N. 42. p. 49. t. 6. f. 15. 16.
Choanopoma Grayanum Pfr. in Zeitschr. f. Mal. 1847. p. 107.
— — *Gray* Catal. Cycloph. p. 52. N. 18.
Adamsiella Grayana Pfr. Consp. N. 247.

β. Peristomate distinctius duplicato, concentrice striato, interno prominente.
Cyclostoma concentricum Adams Contrib. to Conch. N. 1. p. 4. **) (Ex spec. authent.)

γ. Peristomate latius expanso, concentrice striato, rufo, margine sinistro subundulato.
Cyclostoma serriferum Adams Contrib. to Conch. N. 1. p. 4. ***) (Spec. authent.)

Habitat in insula Jamaica.

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*) T. ventricoso-subpyramidali, fusca, apice decollato; anfr. 4 ventricosis, decussatis, subasperis; sutura crenulatiuscula; apertura circulari; peritremate crasso, reflexo-subpatente, albicante; umbilico minori; operculo lamina spirali reflexa. (Sow. l. c.)

**) This may be a variety of *C. variabile*; it is chiefly distinguished by having the lamellae between the inner and outer peritremes so much produced as to appear like numerous concentric margins; by having the lip reflected farther back; by a more slender general form, the mean divergence being 33° to 35°. The lip is reddish purple, with darker rays of the same conspicuous in the more simple lip of the young, and the square sutural spots are always faint. (Adams l. c.)

***) Shell ovate-conic, moderately elongate; reddish brown with a series of rather dark spots of the same; with very thin and sharp transverse perpendicular rather distant lamellae, which are serrated by a few faintly impressed spiral lines: spire with convex outlines; apex truncate with the loss of about three whorls; remaining whorls four and one half, moderately convex, with a well impressed suture; last whorl scarcely detached from the penult whorl near the aperture, which is orbicular; inner peritreme not produced (?); outer peritreme shining, well expanded, except opposite to the penult whorl; umbilicus narrow, but extending through the truncate apex. Mean divergence about 40°; length 0,57, greatest breadth 0,35, least breadth 0,275 inch. — This may possibly be an accidental variety of *C. Grayanum* or of some other of this group. The only specimen which I have does not appear to have the lip fully developed with age. (Adams l. c.)

§. 3.

6. A. moribunda Adams. 287

T. pervie perforata, oblonga, solidula, truncata, lineis elevatis longitudinalibus (nona vel decima quaque validioribus) et concentricis minutissime decussata, albido-lutescens, infra suturam subcrenatam obsolete maculata; anfr. superst. 4 convexi, ultimus teres, antice breviter solutus; apertura axi subparallela, fere circularis; perist. duplex: internum breviter porrectum, externum continuum, undique breviter reflexum, superne angulato-auriculatum. — Operc.? — Long. 12, diam. 6$^1/_2$ mill. Ap. 4 mill. longa. (Mus. Cuming.)

Cyclostoma moribundum Adams Contrib. to Conchol. N. 1. p. 5.
— — *Chemn.* ed. II. N. 342. t. 43. f. 6. 7.
Adamsiella moribunda Pfr. Consp. N. 248.

Habitat in insula Jamaica.

7. A. intermedia Adams. 288

T. aperte perforata, oblongo-pupaeformis, solidiuscula, minute reticulata, non nitens, fulvido-albida, maculis seriatis rufulis obsolete picta; spira oblonga, truncata; sutura obsolete crenulata; anfr. superst. 4 convexiusculi, ultimus angustus, antice solutus; apertura obliqua, circularis; perist. duplex: internum breviter porrectum, externum rectangule modice expansum, concentrice striatum. — Operc.? — Long. 13, diam. 7 mill. Ap. vix 4 mill. diam. (Mus. Cuming.)

Cyclostoma intermedium Adams Contrib. to Conch. N. 1. p. 5. *)
Adamsiella intermedia Pfr. Consp. N. 249.

Habitat in insula Jamaica.

Obs. Species intermedia inter *A. variabilem* et *monstrosam!*

8. A. monstrosa Adams. 289

T. perforata, oblongo-pupaeformis, truncata, tenuiuscula, regulariter decussata, vix nitidula, albida vel pallide cinna-

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*) Species intermediate between *C. variabile* and *C. monstrosum.* Shell sculptured and colored like the pale varieties of *C. variabile*, with the large sutural spots less distinct: whorls of less diameter than in that species but larger than in *C. monstrosum:* apex truncate with the loss of three whorls, four remaining, quite convex, with a rather deep suture; last whorl much detached from the penult whorl; aperture larger than in *C. monstrosum*, with the peritremes similar, but the outer one is less expanded. Mean divergence about 38°; length 0,5, greatest breadth 0,38, least breadth 0,27 inch. (Ad. l. c.)

momea, rufo maculata et marmorata; sutura subcrenata; anfr. superst. 4—4½ angusti, convexi, ultimus angustior, teres, antice longe solutus, descendens; apertura diagonalis, parvula, circularis; perist. duplex: internum breviter porrectum, externum perdilatatum, convexe reflexum, superne subangulatum. — Operc. normale. — Long. 14, diam. 6½ mill. Ap. 3½, cum perist. 7 mill. longa. (Coll. Nr. 129.)

Cyclostoma monstrosum Adams Contrib. to Conch. N. 1. p. 5.
— — *Chemn.* ed. II. N. 259. t. 36. f. 17. 18.
Adamsiella monstrosa Pfr. Consp. N. 250.

Habitat in insula Jamaica.

§. 4.

290 9. **A. xanthostoma Sowerby.**

T. aperte perforata, oblongo-turrita, truncata, solida, liris obtusis spiralibus undulata, longitudinaliter confertissime striata et distanter sulcata, cinereo-rufescens vel pallida, opaca; spira regulariter attenuata, late truncata; sutura profunda, subsimplex; anfr. superst. 4½—5 rotundati, lente accrescentes; apertura verticalis, subcircularis, intus carnea; perist. duplex, aurantiacum vel album: internum simplex, brevissimum, externum continuum, horizontaliter dilatato-expansum, subundulatum, superne subangulatum. — Operc. normale. — Long. 13, diam. 6½ mill. Ap. 3⅔ mill. longa. (Coll. Nr. 130.)

Cyclostoma xanthostoma Sow. Thes. N. 149. p. 144. t. 29. f. 175. *)
— — *Chemn.* ed. II. N. 118. p. 115. t. 14. f. 6—8.
— *tenuistriatum Adams* Contrib. to Conch. N. 1. p. 8. **)
Choanopoma xanthostoma Gray Catal. Cycloph. p. 53. N. 23.
Adamsiella xanthostoma Pfr. Consp. N. 251.

Habitat in insula Jamaica.

*) T. oblonga turrita, crassiuscula, cinereo-rufescente, apice decollato; anfr. 4—5 rotundatis, transversim tenerrime striatis et spiraliter sulcatis, nonnunquam transversim tenuiter sulcatis, sulcis distantibus; sutura profunda; apertura subcirculari; peritremate duplici, aurantiaco-rufescente, interno simplici, tenuiusculo, externo latiori, reflexo, tenuiter subundulato; umbilico mediocri. — Savanah la Mar, Jamaica. (Sow. l. c.)

**) Shell elongate; deeply colored with grayish and reddish slate color, with an orange lip; with numerous distinct spiral striae decussated by excessively minute and numerous transverse striae and by a few distant fine deep striae; spire with moderately convex outlines; apex truncate with the loss of two or three whorls; four and one-half rather convex whorls remaining,

10. A. pinguis Pfr. 291

T. umbilicata, oblongo-turrita, truncata, solida, liris spiralibus obtusis undulata, striis longitudinalibus confertissimis sub lente sculpta, oleoso-micans, cinnamomeo-fusca; spira regulariter attenuata, late truncata; sutura profunda, simplex; anfr. superst. 4 convexi, ultimus rotundatus; apertura subverticalis, fere circularis; perist. album, duplex: internum expansiusculum, adnatum, externum continuum, horizontaliter expansum, anfractui penultimo brevissime adnatum, superne angulatum. — Operc.? — Long. $12^1/_2$, diam. 6 mill. Ap. $3^2/_3$ mill. longa. (Mus. Cuming.)

Cyclostoma pingue Pfr. in Proceed. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 321. t. 41. f. 20. 21.
Adamsiella pinguis Pfr. Consp. N. 252. p. 60.

Habitat . . .?

11. A. ignilabris Adams. 292

T. aperte perforata, elongato-conica, solida, longitudinaliter confertim plicata, sericina, fuscula; spira elongata, apice acuta, plerumque truncatula; sutura profunda, simplex; anfr. (superst. $4^1/_2$—) 7 convexi, ultimus rotundatus; apertura verticalis, ovali-rotundata; perist. igneum, duplex: internum vix porrectum, externum incrassatum, angulatim undique reflexum. — Operc. normale. — Long. (trunc.) 11, diam. vix 5 mill. Ap. 3 mill. longa. (Coll. Nr. 131.)

Cyclostoma ignilabre Adams Contrib. to Conch. N. 1. p 9. *)
— — *Chemn.* ed. II. N. 281. t. 38. f. 23. 24.
Adamsiella ignilabris Pfr. Consp. N. 253.
β. Virenti-alba, peristomate albo.

Habitat in insula Jamaica.

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with a rather deep suture; aperture subelliptical; lip solid; inner peritreme scarcely produced; outer peritreme moderately expanded, thick, striated, edge blunt; umbilicus narrow, extending through. Mean divergence 37°; length 0,5; greatest breadth 0,3; least breadth 0, 23 inch. (Adams l. c.)

*) Shell elongate; varying in different individuals from a pale dingy brown to dark bluish slate colour, but in all is deeply colored at the extremities, with a fiery red-lip; with closely set strong transverse raised lines, which are decussated by many very faint striae; spire with moderately convex outlines; apex truncate with the loss of three whorls; four and one-half quite convex whorls remaining, with a deep suture; aperture and peritremes as in *C tenuistriatum;* umbilicus narrow, extending through. Mean divergence 35°; length 0,5; greatest breadth 0,27; least breadth 0,2 inch. (Adams l. c.)

293 **12. A. chlorostoma Sowerby.**

T. perforata, cylindraceo-turrita, truncata, solida, longitudinaliter confertissime plicata, lineis impressis spiralibus decussata, violaceo-nigricans; anfr. superst. 5 convexi, regulariter et lente accrescentes; apertura verticalis, subcircularis, intus saturate livida; perist. luteum, subduplicatum: internum vix prominulum vel obsoletum, externum undique horizontaliter expansum, margine supero et basali subangulatim dilatatis. — Operc. normale. — Long. 12, diam. 5 mill. Ap. intus $3^1/_3$ mill. longa. (Coll. Nr. 132.)

Cyclostoma chlorostoma Sow. Thes. N. 156. p. 146. t. 28. f. 168. *)
— — *Chemn.* ed. II. N. 117. p. 115. t. 14. f. 1—3.
— *sericeum Fér.* Mus. teste Cuming.
Choanopoma chlorostoma Gray Catal. Cycloph. p. 53. N. 24.
Adamsiella chlorostoma Pfr. Consp. N. 254.

Habitat in Demerara (Sowerby).

C. Operculum ovale, anfractibus paucis, magis minusve celeriter accrescentibus, nucleo excentrico.

XIX. Lithidion Gray.

Operculum subcirculare, testaceum, anfractibus subrapide accrescentibus, carina valida, convexa, subcentrali munitis, marginibus simplicibus. Testa depressa, late et aperte umbilicata; apertura subcircularis; peristoma simplex, tenue vel incrassatum.

Lithidion Gray in Catal. Cycloph. Brit. Mus. p. 35.
— *Pfr.* in Zeitschr. f. Malak. 1851. p. 156. Consp. p. 28.
Cyclostoma (spec.) *Sowerby, Petit, Pfr.*

294 **1. L. sulcatum Gray.**

T. umbilicata, depresso-fornicata, solida, liris elevatis, acutiusculis cincta, nitidula, coerulescenti-albida; spira parum

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*) T. cylindraceo-pyramidali, nigricante, apice decollato; anfr. 5 ventricosis, decussatis; sutura distincta; apertura circulari; peritremate continuo, reflexo-patente, flavo; umbilico minori. (Sow. l. c.)

elevata, apice coerulescens, mucronulata; anfr. 5 convexiusculi, ultimus rotundatus, antice deflexus; umbilicus latus, intus laevigatus; apertura perobliqua, subcircularis, intus fusca; perist. subincrassatum, expansiusculum, marginibus approximatis, dextro repando. — Operc. typicum. — Diam. maj. 10, min. 9, alt. 5 mill. Ap. 5 mill. longa, 4 lata. (Mus. Cuming.)

Cyclostoma lithidion Sow. Thes. N. 61. p. 111. t. 31. f. 262.*)
— — *Chemn.* ed. II. N. 160. p. 150. t. 20. f. 20—22.
Lithidion sulcatum Gray Catal. Cycloph. p. 35.
— — *Pfr.* Consp. N. 255.

Habitat Yemen Arabiae (Powis, Sowerby).

2. L. desciscens Pfr. 295

T. late umbilicata, depresso-semiglobosa, superne confertim sulculata, albida; spira convexa; anfr. $4\frac{1}{2}$ convexiusculi, ultimus teres, antice subito deflexus, basi laevigatus; apertura fere horizontalis, lunato-rotundata, intus alba; perist. incrassatum, marginibus remotis, callo junctis, basali reflexo, columellari subito arcuatim ascendente. — Operc.? — Diam. maj. 10, min. $8\frac{1}{2}$, alt. $5\frac{1}{2}$ mill. Ap. intus 3 mill. longa et lata. (Mus. Cuming.)

Cyclostoma desciscens Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 250. t. 35. f. 25. 26.
Lithidion desciscens Pfr. Consp. N. 256. p. 60.

Habitat Socotora.

3. L. Souleyetianum Petit. 296

T. umbilicata, convexo-conoidea, solida, superne liris elevatis spiralibus 6 cincta striisque transversis confertis sculpta, nitida, fusco-carnea; spira conoidea, apice obtusiuscula; anfr. 5 convexi, ultimus teres, antice deflexus, basi laevigatus; umbilicus latus, perspectivus; apertura perobliqua, intus crocea, irregulariter rotundata; perist. album, subincrassatum, interruptum, marginibus remotis, supero expansiusculo, basali breviter reflexo. — Operc. testaceum, 4-spiratum, nucleo

*) T. suborbiculari, subdepressa, crassa, albida, apice fusco; spira paululum levata; anfr. $4\frac{1}{2}$ rotundatis, spiraliter sulcatis, prope suturam inconspicuam subplanulatis, antice laevioribus; apertura circulari, oblique posita, posticé subangulata; peritremate paululum reflexo, umbilicum versus declivi; umbilico maximo, intus laevi.

subcentrali. — Diam. maj. 8, min. 7, alt. 4½ mill. Ap. c. perist. 3⅓ mill. longa et lata. (Coll. Nr. 133.)

Cyclostoma Souleyetianum Petit in Journ. Conch. 1850. I. p. 52. t. 3. f. 6.*)
— — *Chemn.* ed. II. N. 249. t. 35. f. 23. 24.
— *paradoxum Pfr.* in Zeitschr. f. Mal. 1849. p. 128.
Lithidion Souleyetianum Pfr. Consp. N. 257.

Habitat in insula Abd-el-Goury prope Socotoram (Guillain).

297 4. **L. depressum Sowerby.**

T. umbilicata, depressa, solida, superne liris 6 spiralibus sculpta, nitidula, albida, flammis et strigis angulatis pallide corneis variegata; spira plana, vertice subpapillatim prominulo; sutura profunda; anfr. 4½ convexiusculi, ultimus superne carinatus, basi rotundatus, laevigatus; umbilicus latus, profundus; apertura diagonalis, subcircularis; perist. simplex, rectum, subinterruptum, margine supero subemarginato. — Operc.? — Diam. maj. 12, min. 10, alt. 4 mill. Ap. oblique 4 mill. longa. (Mus. Cuming.)

Cyclostoma depressum Sow. Thes. Suppl. N. 185. p. 161*. t. 31 B. f. 306. 307.**)
— — *Chemn.* ed. II. N. 247. t. 35. f. 17—19.
Lithidion depressum Pfr. Consp. N. 258.

Habitat . . .?

298 5. **L. niveum Petit.**

T. late umbilicata, depressiuscula, solida, superne spiraliter obsolete striata, nitidula, alba; spira parum elevata, mucronata; sutura profunda; anfr. 4½ convexiusculi, ultimus supra medium carinatus, basi convexus, laevigatus; apertura diagonalis, subcircularis, intus carnea; perist. subsimplex, breviter interruptum, marginibus callo tenui junctis, supero repando, ex-

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*) T. orbiculari, conico depressa, profunde umbilicata, carneo-fuscescente, vel roseo tincta; anfr. 5 spiraliter sulcatis, transversim subcancellatis, ultimo subtus laevigato, nitido; apertura obliqua, semilunari, crocea; labro albo vix reflexo; labio interno calloso. — Operculo testaceo, subcentrali. — Diam. 8—10, alt. 3—5 mill. (Petit l. c.)

**) T. suborbiculari, albida; spira depressa, apice prominulo, obtuso; anfr. 4 rotundatis, laevibus, superne spiraliter striatis, mediane subcarinatis; sutura distincta; apertura fere circulari, peritremate tenui, subreflexo, supra ultimum anfractum paululum extenso; umbilico maximo, intus laevi. (Sow. l. c.)

pansiusculo. — Operc.? — Diam. maj. 11, min. 9, alt. 5 mill. Ap. oblique $3^2/_3$ mill. longa. (Coll. Nr. 134.)

Cyclostoma niveum Petit in Journ. Conch. 1850. I. p. 52. t. 3. f. 7.*)
— — *Chemn.* ed. II. N. 248. t. 35. f. 20—22.
Lithidion niveum Pfr. Consp. N. 259.

Habitat Madagascar. (Mus. Cuming.)

XX. Otopoma Gray.

Operculum testaceum, solidum, anfractibus paucis, centro convexis, margine simplice. Testa conico-subglobosa vel depressa; apertura subovalis; perist. rectum vel reflexiusculum, margine columellari plerumque dilatato, umbilici partem majorem vel minorem obtegente.

Otopoma Gray Catal. Cycloph. Brit. Mus. p. 35.
— *Pfr.* in Zeitschr. f. Malak. 1851. p. 157. Consp. p. 29.
Cyclostoma (spec.) *Auctt.*

Conspectus specierum.

A. Umbilico prorsus clauso . . . . . §. 1. Nr. 1.
B. Umbilico magis minusve aperto.
  1. Peristomatis margine dextro expanso §. 2. Nr. 2—6.
  2. Margine dextro recto . . . . . §. 3. — 7—14.
  3. Margine dextro subexpanso, flexuoso §. 4. — 15.

§. 1.

1. **O. clausum Sowerby.** 299

T. clause umbilicata, orbiculato-convexa, solidula, superne spiraliter et confertim sulculata, basi laevigata, carneo-albida; spira brevis, obtusa; sutura plana, in vertice castanea; anfr. 4 vix convexiusculi, ultimus antice descendens, basi subplanulatus; apertura obliqua, rotundato-ovalis, superne subangulata, intus flavida; perist. simplex, rectum, marginibus dis-

*) T. suborbiculari-depressa, alba, late umbilicata, anfr. 4—5, depresso-convexis, superne obsolete spiraliter striatis, ultimo medio subcarinato, subtus sublaevigato; apertura suborbiculari, obliqua, intus sordide crocea, labro vix reflexo. — Diam. 11 mill., alt. 5—6 mill. — Yemen Arabiae? (Petit l. c.)

junctis, dextro repando, columellari in laminam hyalinam latam, reflexam, undique adnatam dilatato. — Operc. testaceum, paucispirum, margine anfractuum costatim prominente, anfractu extimo oblique striato. — Diam. maj. $14^1/_2$, min. $11^2/_3$, alt. 8 mill. Ap. oblique 8 mill. longa. (Mus. Cuming.)

Cyclostoma clausum Sow. Thes. N. 104. p. 128. t. 31. f. 266. 267.*)
— — *Chemn.* ed. II. N. 157. p. 147. t. 20. f. 13—15.
Otopoma clausum Gray Catal. Cycloph. p. 36. N. 2.
— — *Pfr.* Consp. N. 260.

β. Testa minore, elevatiore, linea 1 rufa ad peripheriam ornata; diam. maj. $12^1/_2$, min. 10, alt. $7^1/_2$ mill. (Mus. Cuming.)

Cyclostoma clausum var. Chemn. ed. II. t. 42. f. 13—15.

Habitat Yemen Arabiae (Powis).

§. 2.

300 2. **O. auriculare Gray.**

T. umbilicata, turbinata, tenuiuscula, sulcis spiralibus confertis et inaequalibus sculpta, nitidula, candida; spira breviter turbinata, obtusiuscula; anfr. 5 convexi, rapide accrescentes, ultimus rotundatus, basi distantius sulcatus; apertura parum obliqua, ovalis; perist. tenue, marginibus callo junctis, dextro breviter expanso, superne emarginato, columellari in laminam latam, patentem, umbilicum mediocrem semioccultantem dilatato. — Operc.? — Diam. maj. 42, min. 32, alt. 29 mill. Ap. intus 21 mill. longa, 17 lata. (Mus. Cuming.)

Cyclostoma auriculare Gray in Griff. anim. kingd. t. 28. f. 5.
— *candidum Sow.* Thes. N. 77. p. 117. t. 26. f. 107.**)
— — *Chemn.* ed. II. N. 187. p. 172. t. 25. f. 6. (Ex Sow.)
Cyclophora auricularis Swains. Malac. p. 336.
Otopoma auriculare Gray Catal. Cycloph. p. 36. N. 4.
— — *Pfr.* Consp. N. 261.

Habitat . . .?

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*) T. subglobosa, crassiuscula, laevi, albicante, postice fulvescente, spira brevi, subdepressa, apice obtuso; anfr. $3^1/_2$ subrotundatis, postice spiraliter striatis; apertura circulari, postice subacuminata; peritremate tenui, subreflexo, latere umbilicali crassiusculo, rotundato, umbilicum claudente. (Sow. l. c.)

**) T. subglobosa, spira obtusa; anfr. 5 rotundatis, spiraliter sulcatis, candidis; apertura subcirculari, superne acuminata; peritremate incrassato, superne subsinuoso: infra externe crasso, reflexo; margine interno calloso, supra umbilicum magnum partim extenso. (Sow. l. c.)

3. O. albicans Sowerby. 301

T. late umbilicata, depresso-globosa, laevigata, lineis spiralibus et obliquis obsolete notata, nitidiuscula, alba; spira late conoidea, obtusa; anfr. 5 convexi, supremi distincte concentrice sulcati, ultimus antice descendens, subinflatus; apertura parum obliqua, ovalis; perist. continuum, brevissime adnatum, incrassato-expansum, margine dextro antrorsum arcuato, columellari prope umbilicum subinfundibuliformem angulatim protracto. — Operc.? — Diam. maj. 35, min. 29, alt. 23 mill. Ap. intus 15 mill. longa, 12 lata. (Mus. Cuming.)

Cyclostoma albicans Sow. Spec. Conch. II. Cycl. f. 104. 105.
— — *Sow.* in Zool. of Beech. voy. p. 146. t. 38. f. 30.*)
— — *Sow.* Thes. N. 79. p. 118. t. 26. f. 110—112.**)
— — *Chemn.* ed. II. N. 83. p. 87. t. 11. f. 13. 14.
Otopoma albicans Gray Catal. Cycloph. p. 36. N. 5.
— — *Pfr.* Consp. N. 262.

Habitat in insula Hainan Chinae meridionalis. (Benson in litt.)

4. O. naticoides Récluz. 302

T. umbilicata, conoideo-globosa, solida, crassa, roseo-albida; spira conoidea, obtusiuscula; anfr. $5\frac{1}{2}$ convexi, superiores subtiliter decussati, ultimus longitudinaliter confertim rugatus, plicis obsoletis spiralibus clathratus; apertura parum obliqua, ovalis, intus vitellina; perist. incrassatum, subreflexum, marginibus callo crasso albido angulatim junctis, columellari in laminam crassiusculam, fornicatam, in adultis umbilicum fere omnino claudentem dilatato. — Operc. typicum, 4-spiratum. — Diam. maj. 41, min. 34, alt. 35 mill. Ap. intus 19 mill. longa, medio 16 lata. (Coll. Nr. 135.)

Turbo foliaceus Chemn. Conch. IX. P. II. p. 59. t. 123. f. 1069. 1070? ***)
— — *Gmel.* Syst. p. 3602. N. 104?
Cyclostoma foliaceum Chemn. ed. II. N. 27. p. 36. t. 4. f. 10. 11?

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*) T. subglobulari, albida, superne spiraliter sulcata; infra glabra; spira obtusa; anfr. 5 rotundatis; apertura fere circulari, postice subacuminata; peristomate incrassato, supra sinuoso, margine externo antice incrassato et reflexo, interno juxta umbilicum intus glabrum angulato. — Insulae Oceani Pacifici. (Sow. l. c.)

**) T. subglobosa, spira obtusa, anfr. 5 rotundatis, superne spiraliter sulcatis, infra laevissimis, albicantibus; apertura subcirculari, superne subacuminata; peritremate incrassato, superne subsinuoso, infra externe crasso, reflexo; margine interno angulifero; umbilico magno. (Sow. l. c.)

***) T. trochiformi, alba et rosea, umbilicata, rugis foliaceis corrugata et obsita, ore rotundo. — Anfr. 6. (Chemn. l. c.)

Cyclostoma naticoides Récluz in Revue zool. 1843. p. 3. *)
— — *Récluz* in Guérin Mag. 1843. t. 73.
— — *Chemn.* ed. II. N. 28. p. 37. t. 5. f. 1—4.
— *naticoide Sow.* Thes. N. 78. p. 117. t. 26. f. 108. 109. **)
Otopoma foliaceum Gray Catal. Cycloph. p. 35. N. 1. (exclus. synon.)
— *naticoides Pfr.* Consp. N. 263.

Habitat in interiore insulae Socotorae.

303 5. **O. Guillaini Petit.**

T. umbilicata, globoso-conica, solida, striata, nitidula, albida; spira conica, apice acutiuscula; anfr. 6 convexi, prope suturam lineis 6—8 elevatis sculpti, ultimus ventrosus; apertura parum obliqua, angulato-circularis; perist. incrassatum, subinterruptum, margine dextro et basali breviter reflexis, columellari perdilatato, umbilicum angustum fornicatim fere tegente. — Operc. (ex Petit) calcareum, 4-spirale, anfractibus exterioribus plane concavis, nucleo subcentrali. — Diam. maj. 26, min. 23, alt. 24 mill. (Mus. Cuming.)

Cyclostoma Guillaini Petit in Journ. Conch. 1850. I. p. 51. t. 4. f. 3. ***)
— — *Chemn.* ed. II. N. 234. t. 34. f. 7. 8.
Otopoma Guillaini Pfr. Consp. N. 264.

Habitat Mogadoxa orae Africanae.

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*) T. orbiculato-conica, subtus oblique convexa, albo-rosea; anfr. $5\frac{1}{2}$ convexis, infimo ventricoso, longitudinaliter rugoso, transversim rugis minoribus, subacutis inordinatis cincto; spira conica obtusata, tenuiter ac dense clathrata; apertura intus luteo-fuscescente, extus incrassata, alba; umbilico callum crassum, compressum, dilatatum, albumque occultante. — Alt. et lat. 43 mill. — *Junior:* testa spirae anfractibus superioribus nigrescentibus, transversim regulariter sulcatis, longitudinaliter densissime striatis, subclathratis; peristomate minus incrassato, umbilicum versus angulato; umbilico pervio. (Récluz l. c.)

**) T. subglobosa; crassa, albicante, interdum pallide fulvescente, laevigata, lineis levatiusculis striisque transversalibus irregulariter clathrata; spira brevi, obtusa, anfr. 5 rotundatis, postice tenerrime striatis et concinne decussatis; ultimo maximo ventricoso; sutura distincta, tenui; apertura subcirculari, postice subacuminata, intus aurantiaca; peristomate albo, crasso, subreflexo, latere umbilicali incrassato, lato, extenso, umbilicum majusculum plerumque claudente: operculo elliptico, postice angulifero, anfractibus tribus, extus striatis, intus laevibus. (Sow. l. c.)

***) T. orbiculato-conica, perforata, albo-caerulescente, anfr. 5—6 convexis, superne longitudinaliter sulcatis et obsolete clathratis, ultimo ventricoso; apertura circulari, superne vix angulata, intus crocea; labro incrassato, extus marginato, postice valde calloso, callo umbilicum obtegente. — Diam. 26, alt. 25 mill. (Petit l. c.)

6. **O. unifasciatum Sowerby.** † 304

T. subglobosa, spira acuminata, decollata; anfr. 4 rotundati, laevigati, obsolete spiraliter striati, albicantes, ultimus fascia basali fusca unica; sutura distincta; apertura circularis, intus aurantiaca; peritrema album, reflexum, superne sinuatum, prope umbilicum callosum; umbilicus minor, spiraliter sulcatus. (Sow. Thes.) — Operc.? — Diam. 22, alt. 20 mill. (ex ic.)

Cyclostoma unifasciatum Sow. in Catal. Tank. coll. App. p. VIII. N. 1016. *)
— — *Sow.* Thes. N. 81. p. 119. t. 26. f. 105..106.
— — *Chemn.* ed. II. N. 188. p. 173. t. 25. f. 4. 5. (Ex Sow.)
Otopoma unifasciatum Pfr. Consp. N. 265.

Habitat in insula Madagascar. (Sow. Thes.)

Obs. Cl. Gray hanc speciem ad *C. Listeri* refert (Catal. Cycloph. p. 36). In hoc autem nunquam strias spirales (praeter umbilicum) neque peristoma reflexum observavi.

§. 3.

7. **O.? Philippianum Pfr.** 305

T. umbilicata, globoso-turbinata, tenuis, striatula, superne lineis subtilibus decussatula, fulvido-albida, fasciis 3—4 angustis rufis superne ornata; spira turbinata, apice nigricans; anfr. 5—5½ rotundati, ultimus infra medium fascia latiore cinctus, basi laevigatus, albus; apertura parum obliqua, subangulato-circularis, intus concolor; perist. subinterruptum, marginibus callo tenui junctis, dextro recto, columellari dilatato, libere reflexo, umbilicum angustum, pervium semioccultante. — Operc.? — Diam. maj. 26, min. 21, alt. 22 mill. Ap. 15 mill. longa. (Coll. Nr. 136.)

Turbo ligatus var. Chemn. Conch. IX. P. II. p. 60. t. 123. f. 1073. 1074. (Ed. II. t. 4. f. 14. 15.)
Cyclostoma ligatum Sow. Thes. N. 21. p. 98. t. 23. f. 24.**) Nec Müll.

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*) T. ovato-conoidea, apice truncata, laevi, umbilicata, anfractibus rotundatis, labio extus marginato, colore albido, fascia anfractuum fusca, unica. — Long. $^4/_{10}$, lat. $^5/_{20}$ unc. — Guinea. (Sow. l. c.)

**) T. tenui, subglobosa, spira conoidea, subacuminata; anfr. 5—6 rotundatis, obsoletissime longitudinaliter et transversim oblique striatis; sutura distincta; apertura circulari, superne subangulata; peritremate tenui, paululum subreflexo, latere umbilicali patente; umbilico parvo, laevissimo. (Sow. l. c.)

Cyclostoma Philippianum Pfr. in Chemn. ed. II. N. 356. t. 44. f. 23. 24.
Otopoma Philippianum Pfr. Consp. N. 266. p. 61.

Habitat . . . .?

306 **8. O. clathratulum Récluz.**

T. umbilicata, conoideo-globosa, crassiuscula, superne lineis confertis, elevatis longitudinalibus et spiralibus regulariter clathratula, fuscescenti-carnea, saepe lineis fuscis angustis superne cingulata; spira conoidea, obtusiuscula; anfr. 5 convexi; supremi basi nigro-marginati, ultimus infra medium laevigatus; umbilicus angustus, pervius; apertura oblique ovalis, superne angulata, intus vitellina; perist. rectum, subincrassatum, marginibus subcontiguis, callo continuo angulatim junctis, columellari vix reflexiusculo. — Operc. typicum. — Diam. maj. 22, min. 18, alt. 18 mill. Ap. intus 11 mill. longa. (Coll. Nr. 137.)

Cyclostoma clathratula Récluz in Revue zool. 1843. p. 3.*)
— — *Récluz* in Guérin Mag. 1843. t. 74.
— *clathratulum Sow.* in Proc. Zool. Soc. 1843. p. 30.**)
— — *Sow.* Thes. N. 17. p. 97. t. 23. f. 15. 16.
— — *Chemn.* ed. II. N. 29. p. 38. t. 5. f. 5—7.
Otopoma foliaceum jun. Gray Catal. Cycloph. p. 35.
— *clathratulum Pfr.* Consp. N. 267.

Habitat Yemen Arabiae (Sowerby) et in Socotora (Récluz).

Obs. Conf. *O. naticoides*, quod bene distinctum censeo.

307 **9. O.? vitellinum Pfr.**

T. umbilicata, globoso-conica, solida, striis incrementi confertis et liris confertissimis scabre decussata, flavido-rubella, pallidius irregulariter strigata; spira elevato-conica, apice nigrescens, obtusula; anfr. 5 convexi, ultimus rotundatus, infra

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*) T. orbiculato-conica, luteo-aurantia; anfr. 5 convexis, ad suturam planiusculis, transversim regulariter ac tenuiter sulcatis, longitudinaliter dense striatis, clathratulisque, fasciis transversis fuscis cinctis; supremis basi nigro-marginatis, infimo in medio zona pallide aurantia et spadiceo superne marginata, subtus laevigato; apertura intus aurantia, spadiceo superne marginata, subtus laevigato; apertura intus aurantia, spadiceo superne fasciata, margine acuta; umbilico pervio, dilatato. — Alt. 22, diam. 23½ mill. (Récluz l. c.)

**) T. subglobosa, crassiuscula, obscura; spira subconoidali, apice obtusiusculo; anfr. 4—5 rotundatis, superne longitudinaliter tenuiter striatis, infra laevibus; apertura subovali, superne angulata; peritremate incrassato, supra umbilicum mediocrem paululum extenso. (Sow. l. c.)

medium sublaevigatus, in umbilico angusto, pervio spiraliter sulcatus; apertura vix obliqua, ovali-rotundata; perist. simplex, marginibus approximatis, callo junctis, dextro subrepando, recto, sinistro medio dilatato, patente. — Operc.? — Diam. maj. 19, min. 17, alt. 17 mill. Ap. 11 mill. longa, 10 lata. (Mus. Cuming.)

Cyclostoma vitellinum (Otopoma?) Pfr. in Proc. Zool. Soc. 1851.
— — *Chemn.* ed. II. N. 353. t. 43. f. 35. 36.
Otopoma vitellinum Pfr. Consp. N. 268 p. 61.

Habitat in insula Madagascar.

10. **O. Listeri Gray.** 308

T. subobtecte perforata, globoso-conica, crassa, laevigata, nitida, carnea; spira conica, apice acutiuscula, cornea; anfr. 5 convexi, ultimus obsolete angulatus, saepe linea rufa infra medium cinctus, basi spiraliter profunde sulcatus, apertura parum obliqua, subovalis, intus fulvida; perist. simplex, rectum, marginibus disjunctis, callo tenui angulatim junctis, columellari dilatato-reflexo, perforationem interdum omnino claudente. — Operc.? — Diam. maj. $15^1/_2$, min. $13^1/_2$, alt. 13 mill. Ap. intus $8^1/_2$ mill. longa. (Coll. Nr. 138.)

Lister Hist. t. 44. f. 42? *)
Cyclostoma Listeri Gray in Ann. of Philos. 1821.
— — *Sow.* Thes. N. 20. p. 98. t. 23. f. 22. 23. **)
— — *Chemn.* ed. II. N. 95. p. 98. t. 12. f. 30. 31.
— *fimbriata Quoy et Gaim.* Voy. Astrol. p. 188. t. 12. f. 31 – 35. ***).
— — *Delcss.* Recueil t. 29. f. 12.
— — *Chemn.* ed. II. N. 198. p. 179. t. 30. f. 34. 35. (Ex Quoy.)
— *Philippi Grat.* Act. Soc. Linn. Bord. XI. p. 446. t. 3. f. 21? †)

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*) Cochlea parva pallide rufescens, an marina? ab insula Mauritio. (List. l. c.)

**) T. subglobosa, crassiuscula, spira conoidea, subacuminata; anfr. 4—5 rotundatis, laevibus, nonnunquam superne longitudinaliter obsolete striatis; sutura distincta; apertura circulari; peritremate subincrassato, superne angulato, latere umbilicali calloso, callo umbilicum partim obtegente; umbilico parvo spiraliter striato. (Sow. l c.)

***) Diagnosis Lamarckiana *C. fimbriatae.*

†) T. oblongo-conoidea, crassiuscula, subperforata, transversim sulcata, unifasciata; spira subcanaliculata, superne acuta; anfr. 5 convexis; apertura ovata, intus coerulea; labro acuto ad marginem albido. — Alt. 11, diam. 10 mill. — Madagascar. (Grat. l. c.)

Otopoma Listeri Gray Catal. Cycloph. p. 36. N. 3.
— — *Pfr.* Consp. N. 269.

Habitat in insula Mauritii.

Obs. Conf. *O. unifasciatum Sow.*

309 11. **O. haemastomum Anton.**

T. umbilicata, conico-globosa, solida, cinerascenti-carnea; spira conica, acutiuscula, apice fulva; anfr. $5^1/_2$ convexi, spiraliter confertim sulcati (sulcis 3—4 juxta suturam majoribus), ultimus ventrosus, obsolete angulatus, infra medium interdum linea 1 rufa cingulatus, circa umbilicum mediocrem, pervium remotius et profundius sulcatus; apertura rotundato-ovalis, intus sanguinea; perist. simplex, rectum, marginibus superne angulatim junctis, sinistro super umbilicum subdilatato-incrassato. — Operc. testaceum, albidum, anfr. 5 celeriter crescentibus. — Diam. maj. 16, min. 14, alt. 14 mill. (Coll. Nr. 139.)

Cyclostoma haemastoma Anton Verzeichn. p. 54. N. 1954.
— *haemastomum Chemn.* ed. II. N. 16. p. 24. t. 3. f. 3. 4.
Otopoma haemastomum Gray Catal. Cycloph. p. 36. N. 6.
— — *Pfr.* Consp. N. 270.

Habitat Isle de France (teste Menke Mus.).

310 12. **O.? politum Sowerby.**

T. perforata, conicó-globosa, crassiuscula, polita, castanea, maculis parvis fulvidis vel coerulescenti-albidis confertim guttata; spira conoidea, obtusiuscula; anfr. $4^1/_2$ convexiusculi, ultimus antice pallidus; apertura subcircularis, intus pallida; perist. rectum, obtusum, marginibus superne angulatim junctis, columellari incrassato, umbilicum haud pervium non occultante. — Operc.? — Diam. maj. 18, min. 15, alt. 14 mill. Ap. intus 8 mill. longa. (Mus. Cuming.)

Cyclostoma politum Sow. Thes. N. 18. p. 97 t. 23 f. 17.*)
— — *Chemn.* ed. II. N. 167. p. 155. t. 21. f. 13. 14.
Otopoma politum Gray Catal. Cycloph. p. 37. N. 7.
— ? — *Pfr.* Consp. N. 271.

Habitat . . .?

*) T. subglobosa crassiuscula, subpellucida, polita, spira subconoidali, apice obtuso; anfr 4 rotundatis, pallidis, brunneo-variegatis; sutura distincta; apertura circulari; peritremate subincrassato, intus subconstricto, superne subangulato; umbilico parvo. (Sow. l. c.)

13. **O.? spurcum Grateloup.** † 311

T. orbiculato-turbinata, obconica, spurco-albida, late umbilicata, longitudinaliter striata; spira brevi, acuta; anfractibus convexis; apertura patula, rotundata; labro simplici, acuto. — Alt. 15, diam. 20 mill. (Grat.)

Cyclostoma spurca Grat. Act. Soc. Linn. Bord XI. p. 444. t. 3. f. 18.*)
Otopoma spurcum Gray Catal. Cycloph. p. 37. N. 9.
— ? — *Pfr.* Consp. N. 272.

Habitat Bombay?

14. **O. pygmaeum Sowerby.** 312

T. perforata, globoso-conica, tenuiuscula, subconfertim lirata, fusculo-albida; spira conica, acutiuscula; anfr. 5 convexi, ultimus rotundatus; apertura obliqua, angulato-ovalis; perist. simplex, subinterruptum, margine dextro recto, columellari medio subangulatim dilatato, patente. — Operc. testaceum, planum, paucispirum. — Diam. maj. $4^2/_3$, min. 4, alt. 4 mill. Ap. $2^2/_3$ mill. longa. (Mus. Cuming.)

Cyclostoma pygmaeum Sow. Thes. N. 39. p. 104. t. 30. f. 253.**).
Otopoma pygmaeum Gray Catal. Cycloph. p. 37. N. 8.
— — *Pfr.* Consp. N. 273.

Habitat in Nova Hibernia (Hinds).

§. 4.

15. **O. multilineatum Jay.** 313

T. subobtecte perforata, globoso-conoidea, solida, longitudinaliter rugato-striata, nitida, fulva; spira conica, apice obtusiuscula; anfr. $4^1/_2$ — 5 convexi, ultimus inflatus, albo et fulvo variegatus, lineis castaneis cingulatus; apertura parum

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*) Quoique cette coquille ressemble à une Hélice, c'est un véritable Cyclostome, puisque son péristome est continu; sa couleur est d'un blanc sale: sa surface paraît lisse, mais examinée attentivement on y découvre des stries longitudinales, très-fines, très-serrées et très-régulières. L'ombilic est assez large et profond. L'ouverture est grande, arrondie, dilatée et relevée; les bords sont simples et tranchants. La spire est courte et acuminée, à révolutions convexes. (Grat. l. c.)

**) T. subglobosa, tenuiuscula, fuscescente, spira acuminatiuscula, apice obtuso; anfr. $4^1/_2$ rotundatis, spiraliter sulcatis; sutura distincta; apertura subcirculari, postice paululum acuminata; peritremate tenui, prope umbilicum parvum subreflexo. (Sow. l. c.)

obliqua, subangulato-rotundata, intus concolor; perist. subexpansum, incrassatum, marginibus disjunctis, dextro superne sinuoso, angulato-flexuoso, columellari fornicatim reflexo, adpresso, perforationem fere claudente. — Operc. testaceum, tenuiusculum, griseum, anfractibus paucis, rapide accrescentibus. — Diam. maj. 17, min. 13½, alt. 14 mill. Ap. intus 8 mill. longa, 7 lata. (Coll. Nr. 140.)

Cyclostoma multilineata Jay Catal. 1839. p. 123. t. 7. f. 12. 13. *)
— *flexilabrum Sow.* Thes. N. 112. p. 130. t. 31. f. 258. 259. **)
— — *Chemn.* ed. II. N. 87. p. 91. t. 11. f. 7. 8.
— — *Jay* Catal. 1850. p. 256. N. 5869.
— *flavilabre Petit* in Journ. Conch 1850. I. p. 42.
Tropidophora flexilabrum Gray Catal. Cycloph. p. 41. N. 15.
Otopoma multilineatum Pfr. Consp. N. 274.

Habitat in insula Madagascar (Powis).

XXI. Cyclostomus Montfort.

Operculum subovale, testaceum, planum, anfractibus 4—5 sensim crescentibus, margine simplice, nucleo subexcentrico. Testa depressa, globoso-turbinata vel ovato-turrita; apertura ovalis; peristoma simplex, rectum vel expansum, interdum duplicatum.

Cyclostomus Montfort Conch. syst. II. p. 286.
— *Gray* in Proc. Zool. Soc. 1847. p. 181. n. 514.
— *Pfr.* in Zeitschr. f. Malak. 1851 p. 159. Consp. p. 31.
— et *Tropidophora Gray* Catal. Cycloph. p. 42 et 37.
Tropidophora Trosch. in Zeitschr. f. Malak. 1847. p. 44.
— et *Cyclostoma* (pars) *Pfr.* in Zeitschr. f. Malak. 1847. p. 106. 107.
Cyclostoma Lam. et *Auctt.* pars.

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*) A very pretty shell, with 5 reddish lines surrounding the body whorl. The umbilicus is closed; the aperture is round, but the margin is indented on the external and superior part. — Hab.? (Jay l. c.)

**) T. globoso-conoidea, crassa, laevi, brunnescente; spira obtusa; anfr. 4½ subventricosis, ultimo rotundato, fasciis castaneis spiralibus ornato; apertura fere circulari; peritremate incrassato, reflexo, postice sinuato; umbilico minimo, lineari vel clauso. (Sow. l. c.)

Conspectus specierum.

A. Carinatae,
- 1. depressae . . . . §. 1. Nr. 1—8.
- 2. turbinato-conicae.
  - a. Bi-vel multicarinatae . . . . §. 2. — 9—26.
  - b. Unicarinatae . . . . §. 3. — 27—28.

B. Ecarinatae,
- 1. depressae . . . . §. 4. — 29—30.
- 2. globoso-turbinatae.
  - a. Peristome reflexo,
    - α. lato . . . . §. 5. — 31—37.
    - β. angusto . . . . §. 6. — 38—54.
  - b. Peristomate recto . . . . . §. 7. — 55—59.
- 3. Ovato-turritae
  - a. Peristomate recto . . . . . §. 8. — 60—67.
  - b. Peristomate duplice, expanso.
    - α. Laevigatae . . . . §. 9. — 68—70.
    - β. Longitudinaliter plicatae . . §. 10. — 71—80.
    - γ. Decussatae . . . . §. 11. — 81—85.

§. 1.

1. C. Cuvierianus Petit. 314

T. umbilicata, depressa, lineis confertis longitudinalibus distantioribusque spiralibus decussata, cinerascenti-fulva; spira parum elevata; anfr. 5—6, supremi convexi, sequentes deplanati, lamelloso-unicarinati, ultimus superne convexiusculus, ad peripheriam carinis 2 remotis lamelliformibus et circa umbilicum latum, perspectivum costis pluribus spiralibus, acute elevatis munitus; apertura obliqua, subcircularis, intus fulva; perist. album, late expansum, marginibus callo crassiusculo junctis, dextro bicanaliculato, columellari superne dilatato, patente. — Operc. calcareum, anfr. 5, extimis latis. — Diam. maj. 62, min. 54, alt. 32 mill. Ap. intus 25 mill. longa, 22 lata. (Coll. Nr. 141.)

Cyclostoma Cuvieriana Petit in Revue zool. 1841. Juin p. 184. *)
— — *Petit* in Guérin Mag. 1842. t. 55.

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*) T. lata, orbiculata, subtrochiformi, cinerascente, late umbilicata, umbilico spirali, usque ad apicem perspicuo; anfr. 5—6, tenue cancellatis, depresso-planulatis, carinatis; ultimo superne convexiusculo; medio bicarinato, carinis late remotis lamellosis; spira exsertiuscula; apertura rotundata; margine reflexo, anterius bisulcato. — Lat. 65, long. 43 mill. (Petit l. c.)

Cyclostoma Cuvierianum Reeve Conch. syst. II. t. 184. f. 14. t. 185. f. 24.
— — *Sow.* Thes. N. 72. p. 115. t. 30. f. 218. 219. *)
— — *Philippi* Abbild. I. 5. p. 103. t. 1. f. 1.
— — *Chemn.* ed. II. N. 1. p. 9. t. 1. f. 1—4.
Tropidophora Cuvieriana Trosch. in Zeitschr. f. Mal. 1847. p. 44.
— — *Pfr.* ibid. p. 106.
— — *Gray* Catal. Cycloph. p. 37. N. 1. (exclusa var. 1.)
Cyclostomus Cuvierianus Pfr. Consp. N. 275.
β. Minor, margine columellari peristomatis supra umbilicum perdilatato; diam. maj. 37, min. 32, alt. 22 mill. (Mus Cuming.)

Habitat in insula Madagascar; Nosibé (Benson).

315 **2. C. formosus Sowerby.**

T. umbilicata, depresso-trochiformis, solidiuscula, acute tricarinata, interstitiis lineis elevatis spiralibus et confertioribus transversis cancellata, fulvo-rufescens, ad carinas et suturam albo-articulata; spira scalaris, subacuminata; anfr. 5 contabulati, unicarinati, ultimus magnus infra carinam tertiam confertim spiraliter sulcatus; umbilicus infundibuliformis; apertura diagonalis, subcircularis; perist. simplex, marginibus callo tenui emarginato junctis, dextro expanso, bicanaliculato, columellari anguste reflexo. — Operc.? — Diam. maj. 42, min. 34, alt. 23 mill. (Mus. Cuming.)

Cyclostoma formosum Sow. in Proc. Zool. Soc. 1849. p. 15. Moll. t. 2. f. 8. 9. **)
— — *Chemn.* ed. II. N. 221. t. 32. f. 1. 2.
Tropidophora carinata var. Gray Catal. Cycloph. p. 38.
Cyclostomus formosus Pfr. Consp. N. 276.

Habitat Madagascar.

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*) T. suborbiculari, subdepressa, tenuiuscula, striata, bicarinata, fulvo-rubescente, spira subdepressa, anfr. 4, rapide crescentibus, rotundatis, postice, concinne spiraliter striatis, carinis duabus, validis, antice striis gradatim majusculis ornatis; sutura oblita; apertura magna, fere circulari, postice paululum acuminata, peritremate lato, foliaceo, expanso; umbilico magno, spiraliter striato. (Sow. l. c.)

**) T. suborbiculari, subdepressa, tenuiuscula, spiraliter striata, tricarinata, fulvo-rubescente; spira brevi, acuminata; anfr. 5 rapide crescentibus, rotundatis, carinis duabus validis, albicantibus castaneo-articulatis; antice striis subobsoletis, gradatim majusculis, carinaque tertia umbilicum circumferente; sutura valida, laevi; apertura magna, fere circulari, postice paululum acuminata, peritremate latiusculo reflexo, incisuris parvis tribus, ad carinas externas idoneis; umbilico magno, profundo, spiraliter striato, striis exterioribus gradatim majusculis. (Sow. l. c.)

3. C. cariniferus Sowerby. 316

T. late umbilicata, depressa, subdiscoidea, striis incrementi distinctis carinisque permultis elevatis (interjectis minoribus confertis) subreticulata, fulvescenti-fusca, cingulo 1 saturatiore infra peripheriam circumdata; spira vix elevata, mucronulata; anfr. 5 convexiusculi, celeriter accrescentes, ad suturam depressi; apertura parum obliqua, subcircularis; perist. fulvidum, subincrassatum, breviter expansum, marginibus callo sursum protracto junctis, columellari dilatato, subreflexo. — Operc.? — Diam. maj. 40, min. 32, alt. 17 mill. Ap. oblique 20 mill. longa. (Mus. Cuming.)

Cyclostoma cariniferum Sow. Spec. conch. f. 197. 198.
— — *Reeve* Conch. syst. II. t. 185. f. 23.
— — *Sow.* Thes. N. 69. p. 114. t. 25. f. 98. *)
— — *Chemn.* ed. II. N. 152. p. 144. t. 19. f. 13—15.
Cyclophorus? cariniferus Pfr. in Zeitschr. f. Mal. 1847. p. 108.
— — *Gray* Catal. Cycloph. p. 21. N. 25.
Cyclostomus cariniferus Pfr. Consp. N. 277.

β. Minor, carinis plurimis minoribus, peristomate rubro aurantiaco; diam. maj. 36, min. 28, alt. 16 mill. (Mus. Cuming.)
Cyclostoma spectabile Petit Journ. Conch. 1850. I. p. 49. t. 3. f. 2. **)

Habitat Madagascar; var. Nosse Faly prope Nosse Be (Guillain).

4. C. articulatus Gray. 317

T. mediocriter umbilicata, orbiculato-conoidea, solida, multicarinata (carinis 2—3 validioribus, fusco-articulatis), pallide carnea; spira late conoidea, apice obtusiuscula; anfr. 5 convexiusculi, subangulati, celeriter accrescentes, ultimus infra carinam periphericam subplanulatus, spadiceo-unifasciatus, confertim et profunde sulcatus, juxta umbilicum infundibuliformem, intus ruditer sulcatum carina latiore munitus; apertura subobliqua, fere circularis, intus fulvescens; perist. subincrassatum, rectum, marginibus callo brevi, lunatim exciso junctis, dextro

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*) T. orbiculari, subdepressa, fulvescente-fusca, cingulo saturatiori; anfr. 5 rotundatis, spiraliter striatis et cariniferis, carinis 8—10 acutis, superioribus majoribus; apertura magna, orbiculari; peritremate reflexo, posticè supra anfractum ultimum paululum extenso; umbilico maximo, spiraliter striato; sutura distincta. (Sow. l. c.)

**) T. orbiculari, conico-depressa, late umbilicata, pallide aurantiaca; anfr. 4—5, convexo-depressis, lineato-sulcatis, ultimo lineis fusco fere articulatis aliquot subcarinato, zona fusca intensiore inframediana cincto; apertura orbiculari, rubro-aurantia, margine reflexo. — Operc. calcareum, nucleo subcentrali, hyalino. — Diam. 36, alt. 20 mill. (Petit l. c.)

superne repando. — Operc.? — Diam. maj. 28, min. 24, alt. 18 mill. Ap. 15 mill. longa. (Mus. Cuming.)

Cyclostoma articulata Gray in Griff. anim. kingd. t. 28. f. 1.
— *filosum Sow.* Spec. Conch. Pt. II. Cyclost. f. 16. 17.
— — *Sow.* in Zool. of Beech. voy. p. 146. t. 38. f. 31.*)
— — *Reeve* Conch. syst. II. t. 184. f. 16.
— — *Sow.* Thes. N. 16. p. 96. t. 23. f. 14. **)
— — *Chemn.* ed. II. N. 144. p. 137. t. 18. f. 12. 13.
— *Terveriana Grat.* Act. Soc. Linn. Bord. XI. p. 439. t. 3. f. 8. ***)
Cyclophora articulata Swains. Malacol. p. 336.
Tropidophora filosa et *Terveriana Pfr.* in Zeitschr. f. Mal. 1847. p. 106.
— *articulata* et *Terveriana Gray* Catal. Cycloph. p. 38. 42.
Cyclostomus articulatus Pfr. Consp. N. 278.

Habitat in India orientali (Sow.), Madagascar (Grat.), in insula Rodriguez prope insulam Mauritii (Benson).

318 5. **C. Deshayesianus Petit.**

T. umbilicata, depressa, solida, superne carinis multis, alternis acute elevatis sculpta, interstitiis minutissime cancellatis, opaca, roseo-aurantiaca; spira breviter turbinatim elevata, vertice papillato; anfr. 5 convexi, celeriter accrescentes, ultimus descendens, peripheria acutius et compresse carinatus, basi convexus, spiraliter conferte striatus; umbilicus mediocris; apertura perobliqua, subcircularis; perist. subduplex: internum callosum, obtusum, album, externum incrassatum, angulatim patens, superne antrorsum dilatatum, adnatum. — Operc.? — Diam. maj. 22, min. 19, alt. 11 mill. (Mus. Cuming.)

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*) T. late umbilicata, conoideo-orbiculari, crassiuscula, pallida; spira brevi; anfr. 5 rotundis, longitudinaliter striatis; carinis 2 prominentioribus fusco-rubro maculatis, altera juxta suturam; apertura circulari; peristomate subincrassato, supra sinuato, subangulato, margine obtuso; umbilico profundo, margine bicarinato. (Sow. l. c.)

**) T. orbiculato-subconica, crassiuscula, pallida, anfr. 5 rotundatis, longitudinaliter striatis et carinatis, carinis 2 majoribus fusco-articulatis, inferiore suturali: sutura minime distincta; apertura circulari, peritremate subincrassato, superne sinuato et subangulato, in canalem brevissimam, inconspicuam desinente, margine obtusiusculo; umbilico magno, margine carinis 2, intus profunde striato. (Sow. l. c.)

***) T. orbiculato-subtrochiformi, depressa, crassiuscula, albida, late et profunde umbilicata, confertim transversim sulcata, tricarinata; fasciis caeruleo-fuscis, velut punctatis ad marginem carinarum; spira brevi, acuta; anfr. 5 convexis; apertura rotundata, intus laevigata, ad marginem acuta. Alt. 23 - 24, diam. 30 mill. (Grat. l. c.)

Cyclostoma Deshayesianum Petit in Revue zool. 1844. p. 3. *)
— — *Petit* in Guér. Mag. 1844. t. 98.
— — *Chemn.* ed. II. N. 192. p. 175. t. 25. f. 8—10. (Ex Guér.)
— — *Sow.* Thes. Suppl. N. 191. p. 164*. t. 31 B. f. 326. 327. **)
— *gratum Fér.* teste Jay.
Tropidophora Deshayesiana Pfr. in Zeitschr. f. Mal. 1847. p. 106.
— *Cuvieriana var. Gray* Catal. Cycloph. p. 38.
Cyclostomus Deshayesianus Pfr. Consp. N. 279.

Habitat in parte septentrionali insulae Madagascar.

6. C. Abeillei Grateloup. † 319

T. orbiculato-subtrochiformi, umbilicata, 5-carinata, transversim sulcata, albida, fasciis obscuris maculisve luteolis depicta; umbilico profundo; spira brevi, acuta; anfr. 5; apertura subrotunda; labiis acutis subreflexis. — Operc.? — Alt. 16—17, diam. 20 mill. (Gr.)

Cyclostoma Abeillei Grat. in Act. Soc. Linn. Bord. XI. p. 437. t. 3. f. 6.
Tropidophora Abeillei Pfr. in Zeitschr. f. Mal. 1847. p. 106.
— — *Gray* Catal. Cycloph. p. 42. N. 19.
Cyclostomus Abeillei Pfr. Consp. N. 280.

Habitat in insula Madagascar.

7. C. modestus Petit. 320

T. late umbilicata, depressa, solidula, striatula, spiraliter multilirata, subtricarinata, fusculo-albida; spira plana; anfr. 4 depressi, sutura canaliculata juncti, ultimus basi convexus; apertura obliqua, angulato-ovalis; perist. album, marginibus

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*) T. orbiculato-convexa, carinata, roseo-aurantia; anfr. 5 convexo-depressis, carinis sublamellosis et decurrentibus sculptis; ultimo anfractu antice gradatim inclinato et subtus striis regularibus creberrimisque pulchre ornato; sutura anguste canaliculata; perist. albo, crasso, externe carina lamellosa circumdato; umbilico largo, profundo, spirali. — Lat. 25, alt. 17 mill. (Petit l. c.)

**) T. suborbiculari, depressa, subdiscoidea, spiraliter lirata, fulvescente; spira brevissima, obtusa; anfr. 4 rotundatis, spiraliter liratis, postice plerumque liris acutis, lineis incrementi decussatis, antice striatis, striis plus minusve validis; sutura subdistincta; apertura circulari, intus aurantiaca, peritremate duplici, interno albo, incrassato, ad ultimum anfractum interrupto, externo lamellari, extenso, latiusculo; umbilico maximo, intus spiraliter striato. (Sow. l. c.)

approximatis, callo tenui junctis, dextro superne repando, fornicatim expanso, carinis angulato, columellari angusto, vix reflexiusculo. — Operc.? — Diam. maj. 24, min. 19, alt. 9 mill. Ap. oblique 9 mill. longa. (Mus. Cuming.)

Cyclostoma modestum Petit in Journ. Conch. 1850. I. p. 50. t. 4. f. 2.*)
— — *Chemn.* ed. II. N. 333. t. 42. f. 16—18.
Cyclostomus modestus Pfr. Consp. N. 281.

Habitat in montibus insulae Abd-el-Goury.

321 8. **C. liratus Pfr.**

T. late et perspective umbilicata, subdiscoidea, solidula, radiatim striata, superne et basi confertim et acute lirata, non nitens, livido-carnea; spira vix elevata, vertice papillari; sutura profunda; anfr. 4 vix convexi, ultimus ad suturam depressus, ad peripheriam carinis 5—6 distantioribus, majoribus munitus, antice descendens; apertura perobliqua, oblongo-circularis; perist. duplex: internum continuum, obtuse prominens, externum dilatatum, expanso-inflexum, latere sinistro angustissimum. — Operc.? — Diam. maj. 18, min. $14^1/_2$, alt. 7—8 mill. (Mus. Cuming.)

Cyclostoma liratum Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed II. N. 340. t. 42. f. 9. 10.
Cyclostomus liratus Pfr. Consp. N. 282. p. 61.

Habitat . . .?

§. 2.

322 9. **C. campanulatus Pfr.**

T. anguste umbilicata, turbinata, solida, confertissime striatula, lutescente, griseo et saturate carneo irregulariter variegata; spira conica, elevata, apice obtusiuscula; anfr. 6, supremi convexi, ultimi rapide accrescentes, angulati, ultimus carinis 2 acute elevatis, pluribusque obsoletioribus cinctus, basi profunde et confertim sulcata in umbilicum infundibuliformem, vix pervium abiens; apertura ovali-rotundata, superne subangulata, intus atro-castanea, nitidissima; perist. continuum,

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*) T. orbiculato-depressa, late umbilicata, pallidissime fusca, spiraliter valde sulcata, subtricarinata, transversim tenue et crebre striata; anfr. 5 depresso-convexis, sutura profunda discretis; apertura suborbiculari, obliqua; labro reflexo, antice quadrangulato; angulis medianis majoribus. — Diam. 26, alt. 12 mill. (Petit l. c.)

dilatatum, campanulatum, carneum, ad anfractum penultimum lunatim excisum, margine sinistro flexuoso. — Operc.? — Diam. maj. 45, min. 35, alt. 34 mill. Ap. intus 20, extus 28 mill. longa. (Mus. Cuming. et Gruner.)

Cyclostoma campanulatum Pfr. in Zeitschr. f. Malak. 1847. p. 57.
— — *Chemn.* ed. II. N. 141. p. 135. t. 18. f. 4—6.
— *unicarinatum Sow.* Thes. t. 26. f. 119. (Nec f. 120.)
— *tricarinatum Pot.* et *Mich.* Gal. I. p. 242. t. 24. f. 22. 23?
Tropidophora campanulata Pfr. in Zeitschr. f. Mal. 1847. p. 106.
— *tricarinata var. Gray* Catal. Cycloph. p. 39.
Cyclostomus campanulatus Pfr. Consp. N. 283.

Habitat . . .?

10. C. bicarinatus Sowerby. 323

T. obtecte umbilicata, globoso-conica, tenuiuscula, subconfertim obsolete sulcata, bicarinata, fusco-caesia; spira pyramidata, apice plerumque decollata; anfr. 6 angulati, ultimus carinis 2 pallidis, acute elevatis cinctus, basi profunde spiraliter sulcatus; apertura subverticalis, subcircularis, intus nitide atrosanguinea; perist. simplex, expansum, purpureo-sanguineum, marginibus subdisjunctis, columellari superne in laminam linguaeformem, fornicatam, umbilicum fere omnino claudentem dilatato. — Operc.? — Long. 35, diam. anfr. penult. 23 mill. Ap. intus 18 mill. longa. (Coll. Nr. 142.)

Cyclostoma bicarinatum Sow. Thes. N. 85. p. 120. t. 26. f. 121. *)
— — *Sganz.* Cat. Coq. Ile de France etc. **)
— — *Chemn.* N. 147. p. 139. t. 19. f. 1—3.
— — *Desh.* Traité élém. Conch. t 82. f. 1. 2.
Tropidophora bicarinata Pfr. in Zeitschr. f. Mal. 1847. p. 106.
— *tricarinata var. Gray* Catal. Cycloph. p. 39.
Cyclostomus bicarinatus Pfr. Consp. N. 284.

β. Minor, umbilico aperto; long. 24, diam. 17 mill. (Mus. Cuming.)

Habitat in insula Madagascar.

11. C. pulchellus Sowerby. 324

T. perforata, globoso-turbinata, tenuis, striis longitudinalibus et spiralibus confertissimis subtiliter decussata, fulves-

*) T. globoso-conica, subfusca, spira acuminata, decollata; anfr. 4—6 rotundatis, spiraliter obsolete striatis, carinis 2 albis, altera mediana, altera postica; apertura circulari; peritremate fulvo, reflexo, patente, callum supra umbilicum mediocre, spiraliter sulcato, efformante. (Sow. l. c.)

**) Sans doute une var. monstrueuse de *C. unicarinata.* (Sganzin.)

centi-carnea, fasciis multis maculose interruptis castaneis ornata; spira conica, acuta; anfr. 5 convexi, celeriter accrescentes, 2 ultimi carinis 2—3 acutiusculis cincti, ultimus basi in umbilicum infundibuliformem, confertim profunde sulcatum abiens; apertura subverticalis, fere circularis; perist. acutum, marginibus superne angulatim junctis, dextro late expanso, sanguineo, sinistro brevi, crenulato. — Operc. testaceum, sub-4-spirum, extus concavum. — Diam. 29, alt. 23 mill. Ap. intus 14 mill. longa. (Mus. Cuming. et Coll. Nr. 143.)

Cyclostoma pulchellum Sow. Thes. N. 109. p. 129. *)
— — *Chemn.* ed. II. N. 142. p. 135.
Tropidophora pulchella Gray Catal. Cycloph. p. 40. N. 8.
Cyclostomus pulchellus Pfr Consp. N. 285.

α. Testa adulta:
Cyclostoma Hanleyi Pfr. in Zeitschr. f. Mal. 1847. p. 58.
— — *Chemn.* ed. II. N. 143. p. 136. t. 18. f. 9—11.
Tropidophora Hanleyi Pfr. in Zeitschr. f. Mal. 1847. p. 106.

β. Testa junior:
Cyclostoma pulchellum Sow. Thes. t. 31. f. 263. 264. (*Chemn.* l. c. t. 18. f. 7—8.)
Tropidophora pulchella Pfr. in Zeitschr. f. Mal. 1847. p. 106.

Habitat . . .?

325 12. **C. zonulatus Férussac.**

T. subumbilicata, globoso-pyramidata, tenuiuscula, longitudinaliter confertim striata et acute multicarinata, cinerea; spira conica, acutiuscula; anfr. 5 convexi, ultimus peripheria acute carinatus, superne spiraliter liratus et carinis 3 subelevatis sculptus, basi confertim spiraliter sulcatus et fasciis pluribus fusco-corneis ornatus; apertura fere verticalis, subcircularis; perist. breviter interruptum, album, margine dextro dilatato, rectangule patente, crenato, sinistro angusto, superne lamina fornicatim reflexa umbilicum angustum fere claudente. — Operc. terminale; testaceum, 4-spiratum. — Diam. maj. 21, min. 16, alt. 19 mill. (Mus. Cuming.)

Cyclostoma zonulatum Féruss. Mus.

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*) T. tenui, subgloboso-conoidea, pallescente, tenuissime spiraliter striata; anfr. 5 ventricosissimis, fasciis 5—6 interruptis fuscis; ultimo carina parva mediana; apertura circulari, peritremate reflexo, aurantiaco; umbilico mediocri, intus spiraliter sulcato; sutura valida. (Sow. l. c.)

Cyclostoma zonulatum *Sow.* Thes. Suppl. N. 180. p. 159 *. t. 31 A. f. 296. 297. *)
— — *Chemn.* ed. II. N. 238. t. 34. f. 17. 18.
Cyclostomus zonulatus *Pfr.* Consp. N. 286.

Habitat . . .?

Obs. Peraffinis *C. zonato* *Petit*, carinis discrepans.

13. **C. tricarinatus (Helix) Müller.** † 326

T. trochiformi, subumbilicata, acuminata, striis convexis, carinaque triplici, spiralibus, apertura dilatata. — Diam. 11 lin. — Testa pulchritudine structurae nulli secunda, pallida, strigis transversis striisque spiralibus, obsolete luteis. Anfractus 5 plus solito praerupti striis plurimis convexis, tribusque majoribus elevatis acutis, spiralibus insigniti. Apertura fere circularis; labrum dilatatum, album, margine acuto. Axis perforatus, vel subumbilicatus, protrusione labii non prorsus tectus. (Müll.)

Helix tricarinata *Müll.* Hist. verm. II. p. 84. N. 282.
— — *Chemn.* Conch. IX. P. II. p. 85. t. 126. f. 1103. 1104. **)
— — *Gmel.* Syst. p. 3621. N. 34.
Turbo carinatus *Wood* Ind. t. 32. f. 125.
Cyclostoma tricarinata *Lam.* Hist. VI. p. 144. N. 6. Ed. Desh. VIII. p. 355. ***)
— *tricarinatum* *Chemn.* ed. II. t. 4. f. 16. 17. (exclusa descriptione et t. 3. f. 8.)
Tropidophora tricarinata *Trosch.* in Zeitschr. f. Mal. 1847. p. 44.
— — *Pfr.* ibid. p. 106.
— — *Gray* Catal. Cycloph. p. 39. N. 5. (excl. varr.)
Cyclostomus tricarinatus *Pfr.* Consp. N. 287.

Habitat Madagascar.

*) T. globoso-conica, albicante, fusco-zonulata; spira levato-conica, acuminata, apice obtusiusculo; anfr. 5 rotundatis, postice carinis 4—5 tenuibus, antice striis validis instructis; sutura distincta; apertura circulari, peritremate lato, albo, extus expanso, intus supra umbilicum postice revoluto, antice angustato; umbilico parvo, striis nonnullis validis instructo; operculo testaceo, paucispirali. (Sow. l. c.)

**) T. cochleata, umbilicata, transversim striata, tribus carinis redimita, apertura rotundata, labro lato, candido, reflexo. (Chemn. l. c.)

***) T. trochiformi, perforata, transversim striata et carinata, griseo-rubente; anfractuum carinis praecipuis tribus: intermedia eminentiore; spira brevi, subacuta; apertura fuscata; labro margine albo, reflexo. — Diam. 1″. (Lam. l. c.)

327 **14. C. carinatus (Turbo) Born.**

T. umbilicata, globoso-conica, costis spiralibus confertiusculis undique asperata, pallide fulva; spira conoidea, plerumque decollata; anfr. 4—6 convexi, carinis 2—3 validis cincti, ultimus basi convexus, circa umbilicum infundibuliformem, intus spiraliter valde sulcatum carina acuta munitus; apertura subcircularis, superne subangulata; perist. undique expansum, subincrassatum, marginibus junctis, ad carinas angulosis. — Operc.? — Diam. maj. 28, min. 23, alt. 21 mill. Ap. intus 12 mill. longa. (Mus. Cuming. et Anton.)

Buccinum umbilicatum List. Hist. t. 28. f. 26. (*Schroet.* Einl. II. p. 181. N. 10.)
Turbo carinatus Born Test. p. 353. t. 13. f. 3. 4. *)
— — *Schroet.* Einl. II. p. 103. N. 118.
— — *Gmel.* Syst. p. 3601. N. 57.
— — *Dillw.* Descr. catal. II. p. 866. N. 123.
Cyclostoma carinata Lam. Hist. VI. p. 143. N. 3. Ed. Desh. VIII. p. 354? **)
— — *Desh.* in Encycl. méth. II. p. 40. N. 3? ***)
— *tricarinatum Sow* Thes. N. 86. p. 120. t. 26. f. 122. †)
— — *Chemn.* ed. II. N. 17. p. 25. t. 3. f. 8. (Nec t. 4. f. 16. 17.)
Tropidophora carinata Pfr. in Zeitschr. f. Mal. 1847. p. 106.
— — *Gray* Catal. Cycloph. p. 38. (exclusa var.)

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*) T. rotundata, pyramidata, subpellucida, tenuis; anfr. 5 teretes, cincti carinis tribus vel sex lamellosis, supremis tenuioribus; apertura orbicularis; umbilicus spiralis, latus; color albidus. Long. 1 poll. 2 lin.; lat. 1 poll. 3 lin. (Born l. c.)

**) T. orbiculata, subtrochiformi, profunde umbilicata, tenui, pellucida, multicarinata, albida; anfractuum carinis praecipuis subquinis eminentibus; spira breviuscula. — T. carinatus Born. — Diam. bas. 15'''. Coquille rare, mince, presque papyracée, à carènes inégales, dont certaines sont très saillantes. (Lam. l. c.)

***) Coquille très râre, mince, blanchâtre ou jaunâtre, quelquefois tachetée de brun ou marquée de quelques bandes obscures transverses de la même couleur; ses tours de spire, arrondis, sont chargés de carènes ou côtes blanches assez variables et pour le nombre et pour la disposition; mais il y en a le plus souvent 3 à 5 principales, entre lesquelles il en existe de plus petites. En dessous se voit un ombilic médiocre et profond; l'ouverture assez ample, à bords minces, quelquefois renversés en dehors. Elle a les mêmes dimensions que la précédente (C. volvulus). (Desh. l. c.)

†) T. globoso-conica, pallide fulva, spira acuminatiuscula; anfr. 4—6 ventricosis, marginibus superioribus subundulatis, carinis 2 ad 4 acutis; apertura circulari; peritremate reflexo, superne acuminato; umbilico magno, intus carinato, margine carina supereminente. (Sow. l. c.)

Cyclostomus carinatus Pfr. Consp. N. 288.

Habitat . . .?

Obs. Figura supera Listeri t. 28 ad praecedentem potius referenda videtur.

15. C. unicolor Pfr. 328

T. umbilicata, globoso-conica, solida, longitudinaliter striatula, spiraliter confertim sulcata, opaca, albida; spira conica, apice fulva, obtusiuscula; anfr. 5 convexiusculi, ultimus superne et medio acute carinatus: carina tertia, validissima circa umbilicum angustum, infundibuliformem, intus profunde spiraliter sulcatum; apertura parum obliqua, angulato-circularis; perist. simplex, marginibus callo lunatim exciso junctis, dextro expansiusculo, sinistro medio angulatim incrassato. — Operc.? — Diam. maj. 28, min. 22, alt. 20 mill. Ap. 12½ mill. longa, 12 lata. (Mus. Cuming.)

Cyclostoma unicolor Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 289. t. 39. f. 5. 6.
Cyclostomus unicolor Pfr. Consp. N. 289. p. 62.

T. minore, fulvido-straminea, longitudinaliter confertim striata; diam. maj. 20, min. 17, alt. 16 mill. (Mus. Cuming.)

Cyclostoma unicolor var. Chemn. l. c. t. 39. f. 7.

Habitat . . .?

16. C. deliciosus Férussac. 329

T. umbilicata, globoso-turbinata, tenuiuscula, striata, medio carinis 3 acutis, pluribusque minoribus munita, cinnamomea; spira turbinata, apice acutiuscula; anfr. 5½ angulato-convexi, ultimus superne convexiusculus, lineis nonnullis elevatis sculptus, basi convexior, circa umbilicum mediocrem, infundibuliformem subconfertim spiraliter liratus; apertura obliqua, ovalis; perist. simplex, marginibus approximatis, callo tenui junctis, dextro expanso, columellari reflexo. — Operc.? — Diam. maj. 23, min. 18, alt. 17 mill. (Mus. Cuming.)

Cyclostoma deliciosum Féruss. Mus.
— — *Sow.* Thes. Suppl. N. 186. p. 162 *. t. 31 B. f. 314. 315. *)

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*) T. subgloboso-conica, aurantiaco-castanea, albo-lineata; spira subacuminata, apice obtusiusculo; anfr. 4½ rotundatis, posticis unicarinatis, ultimo bi- vel tricarinato, carinis albis; sutura subinconspicua, albicante; apertura fere circulari, superne subcanalifera, peritremate tenuiusculo, reflexo,

Cyclostoma deliciosum Chemn. ed. II. N. 239. t. 34. f. 19. 20.
Cyclostomus deliciosus Pfr. Consp. N. 290.

Habitat in insula Madagascar.

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330 **17. C. Michaudi Grateloup.**

T. perforata, globoso-conica, solida, striatula, carinis 7—8 magis minusve prominentibus, acutiusculis cincta, cinerea vel pallide violacea; spira conica, interdum truncata; anfr. 6 convexi, ultimus basi carina validissima ab umbilico infundibuliformi, intus spiraliter profunde sulcato, vix pervio separatus; apertura subcircularis; perist. albidum, breviter expansum, crenulatum, marginibus callo albo junctis, columellari dilatato, crasso, subreflexo, perforationem occultante, ad carinam basalem obsolete canaliculato. — Operc.? — Long. 30, diam. 21 mill. Ap. 17 mill. longa. (Mus. Cuming.)

Cyclostoma Michaudi Grat. Act. Soc. Linn. Bord. XI. p. 440. t. 3. f. 11. *)
— — *Chemn.* ed. II. N. 145. p. 138. t. 18. f. 14—16.
— *carinatum Sow.* Thes. N. 83. p. 119. t. 26. f. 117. **) Nec f. 118.
Tropidophora Michaudi Pfr. in Zeitschr. f. Mal. 1847. p. 106.
Otopoma Michaudi Gray Catal. Cycloph. p. 37. N. 10.
Cyclostomus Michaudi Pfr. Consp. N. 291.

Habitat in insula Madagascar. (Grat.)

331 **18. C. Barclayanus Pfr.**

T. obtecte perforata, globoso-conica, solida, longitudinaliter confertim striatula et carinis multis acute elevatis munita,

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extus albicante, intus castaneo; umbilico magno, obsolete spiraliter paucistriato, linea albicante unica extus marginato; operculo crassiusculo, albicante, paucispirali. (Sow. l. c.)

*) T. conico-subventricosa, crassa, cinerea vel pallide violacea, vix perforata, transversim costata; umbilico obtecto; spira acuta; anfr. 6 convexis; apertura valde rotunda; peristomate albido, subreflexo; columella callosa. — Alt. 25, diam. 25 mill. (Grat. l. c.)

**) T. globoso-conoidea, brunnea, spira acuminata, plerumque decollata; anfr. 4—5 ventricosis, spiraliter carinatis, carinis plurimis, confertiusculis; apertura circulari, superne subacuminata, peritremate albo, incrassato, subreflexo, callo umbilicali conspicuo; umbilico parvo, margine carina supereminente, intus carinato. (Sow. l. c.)

violacescenti-fusca, strigis saturatioribus et pallidioribus variegata; spira conica, apice obtusa (saepe truncatula); anfr. 5 parum convexi, ultimus carinis 3 validioribus, prominentioribus munitus: maxima mediana, secunda basali, tertia in parte supera; apertura fere verticalis, subcircularis, intus livido-sanguinea; perist. sanguineum, subincrassatum, expansum, ad anfractum penultimum lunatim emarginatum, margine dextro carinis crenulato, columellari fornicato-reflexo, perforationem fere claudente. — Operc. testaceum, 5-spiratum, extus concavum, album. — Long. 29, diam. 23 mill. Ap. intus 13 mill. diam. (Mus. Cuming.)

Cyclostoma Barclayanum Pfr. in Proc. Zool. Soc. 1851.
— — *Chemn.* ed. II. N. 222. t. 32. f. 3. 4.
— *carinatum var. Sow.* Thes. t. 26. f. 118.
Cyclostomus Barclayanus Pfr. Consp. N. 292. p. 62.

Habitat in Isle de France (Sir David Barclay).

19. C. calcareus Sowerby. 332

T. umbilicata, globoso-conica, solida, spiraliter lirata (liris alternis validioribus), opaca, cretacea; spira conica, apice acuminata, subretusa; anfr. $5^1/_2$ convexi, rapide accrescentes, ultimus ventrosus, circa umbilicum mediocrem, pervium aequaliter sulcatus; apertura parum obliqua, subcircularis; perist. continuum, undique expansum, ad anfr. penultimum subemarginatum. — Operc.? — Diam. maj. 33, min. 27, alt. 25 mill. Ap. intus 15 mill. longa. (Mus. Cuming. et Gruner.)

Cyclostoma sulcata Lam. Hist. VI. p. 144. N. 4. Ed. Desh. VIII. p. 354. *)
Nec Drap.
— — *Deless.* Recueil t. 29. f. 9.
— *calcareum Sow.* Thes. N. 80. p. 118. t. 26. f. 113. **)
— — *Chemn.* ed. II. N. 84. p 88. t. 11. f. 11. 12.
Tropidophora calcarea Gray Catal. Cycloph. p. 40. N. 10.
Cyclostomus calcareus Pfr. Consp. N. 293.

Habitat . . .?

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*) T. orbiculata, ventricosa, subtrochiformi, umbilicata, transversim sulcata, alba; spira brevi, acuta. — Diam. 15 lin. (Lam. l. c.)

**) T. globoso-conica, spira acuminata, alba; anfr. 5 ventricosis, spiraliter sulcatis: sutura distincta: apertura circulari, peritremate simplici, reflexo: umbilico mediocri, intus spiraliter sulcato. (Sow. l. c.)

333 **20. C. rugosus Lamarck.**

T. umbilicata, globoso-turbinata, solida, spiraliter levissime et confertim sulcata, nitidula, roseo-carnea; spira conoidea, apice fulva, obtusiuscula; anfr. 5 convexi, ultimus superne carinis sub-6 elevatis munitus, infra peripheriam fascia 1 castanea ornatus, umbilicum infundibuliformem, intus profunde et confertim sulcatum formans; apertura subverticalis, ovali-rotundata, intus fulva; perist. albidum, subincrassatum, expansiusculum, marginibus callo lunatim exciso junctis, columellari angulatim dilatato, patente. — Operc.? — Diam. maj. 28, min. 23, alt. 24 mill. Ap. $16^1/_2$ mill. longa. (Mus. Cuming.)

Cyclostoma rugosa Lam. Hist. VI. p. 145. N. 8. Ed. Desh. VIII. p. 356. *)
— — *Deless.* Recueil t. 29. f. 7. (*Chemn.* ed. II. t. 21. f. 15. 16.)
— *cinctum Sow.* Thes. N. 107. p. 129. t. 29. f. 199. **)
— — *Chemn.* ed. II. N. 149. p. 141. t. 19. f. 6. 7.
Tropidophora rugosa Gray Catal. Cycloph. p. 41. N. 14.
Cyclostomus rugosus Pfr. Consp. N. 294.

Habitat in India orientali (Sowerby).

334 **21. C. Creplini Dunker.**

T. umbilicata, globoso-conica, solida, subtilissime striata, sericea, straminea vel pallide fuscula, rufo maculata et flammulata, multicarinata: carinis subaequalibus, inaequidistantibus, acutis (in anfr. ultimo circa 12), in umbilico angusto confertioribus, obtusioribus; spira conica, obtusiuscula; anfr. 5 tumidi, angulati; apertura parum obliqua, subangulato-rotundata; perist. subinterruptum, subduplex, incrassatum, carneo-albidum, expanso-reflexum, superne angulato-dilatatum, margine columellari fornicato-dilatato. — Operc. profunde immersum, testaceum, planum. — Diam. maj. 19, min. $15^1/_2$, alt. $15^1/_2$ mill. Ap. intus 8 mill. longa, $7^1/_2$ lata. (Coll. Nr. 144.)

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*) T. globoso-conica, subtrochiformi, umbilicata, striis transversis exquisitis subrugosa, grisea; spira brevi; labro margine reflexo. — Diam. 11'''. (Lam. l. c.)

**) T. globoso-conoidali, crassiuscula, pallida, fascia fusca unica inframediana; anfr. 4—5 rotundatis, superne spiraliter sulcatis, infra laeviusculis; sutura distincta; apertura circulari, intus fulva; peritremate subincrassato, subreflexo, latere umbilicali subexpanso, prope ultimum anfractum sinuato, tenuiori; umbilico majori, intus spiraliter sulcato. (Sow. l. c.)

Cyclostoma Creplini Dunk. in Zeitschr. f. Mal. 1848. p. 177.
— — *Chemn.* ed. II. N. 278. t. 38. f. 13—15.
Cyclostomus Creplini Pfr. Consp. N. 295.

Habitat Zanzibar Africae orientalis (Rodatz).

22. C. pulcher Gray. 335

T. perforata, turbinata, solidiuscula, lineis elevatis longitudinalibus scabriuscula, inaequaliter multicarinata, nigricanti-fusca, strigis pallidis, vel rubella, strigis fuscis variegata; anfr. 5 convexi, ultimus obsolete et pallide unifasciatus, carinis basi subaequalibus; apertura subverticalis, ovato-circularis, intus concolor; perist. simplex, marginibus subangulatim junctis, columellari reflexiusculo, umbilicum angustum non occultante. — Operc. immersum, testaceum, extus concaviusculum, anfr. 5 sensim accrescentibus. — Diam. maj. 16½, min. 14½, alt. 14 mill. Ap. diam. vertic. 9½ mill. (Coll. Nr. 145.)

Cyclostoma pulchra Gray in Griff. anim. kingd. t. 28. f. 3.
— *ortix Val.* in Mus. Paris.
— — *Eydoux* in Guérin Mag. 1838. t. 117. f. 2. *)
— *ortyx Sow.* Thes. N. 24. p. 99. t. 23. f. 27. 28. **)
— — *Chemn.* ed. II. N. 137. p. 131. t. 16. f. 13. 14.
— *multicarinata Jay* Catal. 1839. p. 122. t. 7. f. 7. 8. ***)

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*) Cette espèce . . . . . est conique, trochiforme, formée de 5 tours convexes, arrondis, garnis, principalement le dernier, de petites carènes ou côtes transverses, régulières, entre lesquelles on en aperçoit d'autres beaucoup plus fines et très-rapprochées. Examinée à la loupe, cette coquille présente aussi un très-grand nombre de stries longitudinales très-fines et très-serrées. Sous le dernier tour on voit un ombilic médiocre et profond; la suture est simple et linéaire; l'ouverture, assez ample, est arrondie, oblique à l'axe, à bords minces, le plus souvent marginés en dehors. La coloration extérieure est un fond d'un jaune paille terne, parsemé de larges maculations longitudinales brunes et ondulées, souvent interrompues dans leur trajet, ce qui donne à sa surface l'aspect de nattes très-fines. — Diam. 7'''. (Eyd. l. c.)

**) T. tenui, subglobosa, pallida, fusco-variegata, spira conoidea, subacuminata, apice acutiusculo; anfr. 4—5 ventricosis, spiraliter sulcatis et carinatis; apertura circulari sub-effusa, peritremate tenui, subreflexo, margine leviter sinuato, umbilico mediocri, spiraliter sulcato; operculi anfractibus oblique striatis. (Sow. l. c.)

***) The last whorl has 10 elevated horizontal ribs or ridges, equidistant from each other, and crossed longitudinally by numerous fine striae — margin is reflected and partly covers the umbilicus — lip white, shell reddish; with the exception of the fimbriated edge to the margin it resembles Cycl. pulchrum Sow. gen. fig. 2. (Jay l. c.)

Cyclostoma Arthurii Grat. in Act. Soc. Linn. Bord. XI. p. 438. t. 3. f. 7. 12. *)
Cyclophora pulchra ♀ Swains. Malac. p. 336. (ex ic. Griff.)
Tropidophora ortyx Pfr. in Zeitschr. f. Mal. 1847. p. 107.
— *pulchra Gray* Catal. Cycloph. p. 38. N. 4.
Cyclostomus pulcher Pfr. Consp. N. 296.

Habitat in insulis Seychellis.

336 23. **C. Kraussianus Pfr.**

T. umbilicata, globoso-conica, solidula, striatula, liris carinaeformibus permultis, alternis minoribus sculpta, opaca, livido-cinerea, obsolete subfasciata; spira turbinata, acutiuscula; anfr. 5 convexi, ultimus peripheria distinctius carinatus, basi parum convexus; umbilicus mediocris, pervius; apertura parum obliqua, intus fulvo-cinerea; perist. album, tenue, undique expansum, ad anfractum penultimum breviter interruptum. — Operc.? — Diam. maj. $14^1/_2$, min. 12, alt. 12 mill. Ap. c. perist. $7^1/_2$ mill longa. (Mus. Cuming.)

Cyclostoma Kraussianum Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 347. t. 43. f. 17. 18.
Cyclostomus Kraussianus Pfr. Consp. N. 297. p. 62.

Habitat Natal Africae meridionalis.

337 24. **C. castaneus Pfr.**

T. anguste umbilicata, globoso-conica, tenuis, oblique striatula et liris subacutis multis sculpta, nitida, saturate castanea; spira elevato-conica, apice obtusiuscula; anfr. $4^1/_2$ angulato-convexi, ultimus liris 6 subaequalibus, pluribusque minoribus, confertioribus in umbilico munitus; apertura parum obliqua, subcircularis; perist. simplex, tenue, undique expansiusculum, marginibus approximatis, non junctis. — Operc. testaceum, planum, paucispirum. — Diam. maj. 11, min. 9, alt. 9 mill. Ap. fere 6 mill. longa. (Mus. Cuming.)

Cyclostoma castaneum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 337. t. 42. f. 25. 26.
Cyclostomus castaneus Pfr. Consp. N. 298. p. 63.

Habitat in insula Madagascar.

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*) T. ventricoso-conica, umbilicata, tenui, aspera multicarinata, transversim sulcata, albo-rubente; fasciis rubro-fuscis; spira acuta; apertura obovata; labro acuto tantisper reflexo. — Alt. 13—14, diam. 13—14 mill. — Ceylan. (Grat. l. c.)

25. **C. fusculus Pfr.** 338

T. angustissime umbilicata, globoso-conica, tenuis, lineis elevatis spiralibus subconfertis, liraque peripherica validiore, carinaeformi sculpta, vix nitidula, unicolor fuscula, fascia 1 angusta rufa infra carinam pallidam ornata; spira conica, obtusiuscula; anfr. 5 convexi, ultimus interdum carina secunda superne notatus, basi minute spiraliter sulcatus; apertura parum obliqua, rotundato-ovalis; perist. simplex, tenue, undique expansiusculum, marginibus approximatis, non junctis. — Operc. testaceum, planum, cinereum, 4-spirum, nucleo subcentrali. — Diam. maj. 11½, min. 9½, alt. 9 mill. Ap. 6 mill. longa. (Mus. Cuming.)

Cyclostoma fusculum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 336. t. 42. f. 23. 24.
Cyclostomus fusculus Pfr. Consp. 299. p. 63.

Habitat . . .?

26. **C. trochlea Benson.** † 339

T. anguste umbilicata, pyramidata, turrita, glabra, albida, apice obtusiusculo, sutura impressa; anfr. 5 angulato-convexi, superne unicarinati, ultimus tricarinatus, carina 1 superiori, 1 submediana, 1 circumumbilicari; apertura obliqua, circularis, $^2/_7$ longitudinis aequans; perist. acutum, ad finem carinae inferioris vix angulatum; umbilicus pervius. — Operc.? — Diam. 2, long. 3 mill. (Bens.)

Cyclostoma trochlea Bens. in Ann. and Mag. 1851. VIII.
Cyclostomus trochlea Pfr. Consp. N. 300.

Habitat rare in montibus Nilgherries (Jerdon).

§. 3.

27. **C. Madagascariensis Gray.** 340

T. umbilicata, globoso-turbinata, solida, sublaevigata, lineis elevatis obsoletis sculpta, opaca, carnea, fasciis inaequalibus violaceis ornata; spira turbinata, acutiuscula; anfr. 6 convexi, rapide accrescentes, ultimus superne albidus, peripheria unicarinatus, basi convexus, in umbilico lato, subinfundibuliformi spiraliter sulcatus; apertura parum obliqua, subcircularis, intus nitide nigricans; perist. simplex, aurantiacum, pallide marginatum, campanulato-expansum, ad anfractum penultimum arcuatim emarginatum. — Operc.? — Diam. maj.

39, min. 31, alt. 27 mill. Ap. intus oblique 17 mill. longa. (Mus. Cuming. et Gruner.)

Cyclostoma Madagascariensis Gray in Griff. anim. kingd. t. 28. f. 4.
— *Duisabonis Grat.* in Act. Soc. Linn. Bord. XI. p. 435. t. 3. f. 2. *)
— *obsoletum var. Sow.* Thes. t. 27. f. 125.
— *Madagascariense Sow.* Thes. Suppl. N. 177. p. 157*. t. 31 A. f. 289. **)
— — *Chemn.* ed. II. N. 287. t. 39. f. 1. 2.
Cyclophora Madagascariensis Swains. Malacol., p. 336.
Tropidophora tricarinata var. Gray Catal. Cycl. p. 39 et
— ? *Duisabonis Gray* ibid. p 42. N. 17.
Cyclostomus Madagascariensis Pfr. Consp. N. 301.

Habitat in insula Madagascar.

341 28. **C. unicarinatus Lamarck.**

T. umbilicata, depresse turbinata, tenuiuscula, spiraliter obsolete striata, carnea; fusculo marmorata vel castaneo fasciata; spira conica, acutiuscula; anfr. 5½ convexi, ultimus antice violacescens, medio carina 1 compressa, acuta munitus, circa umbilicum confertim sulcatus; apertura parum obliqua, fere circularis, intus nitidissima, purpurascens; perist. simplex, rufo-aurantiacum vel album, campanulato-expansum, marginibus callo lunatim exciso junctis, supero perdilatato, columellari reflexo. — Operc. testaceum, 5-spirum, extus vix concavum, griseo-album, intus nitidum, lutescens, nucleo subcentrali. — Diam. maj. 34, min. 27, alt. 20 mill. Ap. intus 14 mill. longa. (Mus. Cuming. et Gruner.)

Cyclostoma unicarinata Lam. Hist. VI. p. 144. N. 5. Ed. Desh. VIII. p. 355. ***)

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*) T. trochiformi late ac profunde umbilicata, transversim superne striata, inferne sulcata, fusco-rubente multifasciata; apertura valde rotunda intus violacea, nitidissima; perist. ad marginem explanato, rubro aut aurantiaco; anfr. 7—8 convexis, ultimo medio albo-subcarinato. — Alt. 25—28, diam. 30—35 mill. (Grat. l. c.)

**) T. globoso-conoidali, albicante, fusco spiraliter lineata et fasciata; spira subacuminata; anfract. rotundatis, laevibus, ultimo ventricoso, subcarinato, carina alba; apertura circulari, intus castanea; peritremate pallide aurantiaco, lato, extus expanso, supra umbilicum subrevoluto; umbilico majusculo, spiraliter sulcato. (Sow. l. c.)

***) T. trochiformi, umbilicata, transversim striata, luteo-rubente; ultimo anfractu medio carina prominente cincto; labro margine albo, valde reflexo. — J'en ai une variété plus petite, qui est transversalement fasciée de brun. Diamètre de notre plus grande coquille 14 lignes. (Lam. l. c.)

Cyclostoma unicarinata Lam. Encycl. méth. t. 461. f. 1.
— —, *Desh.* in Encycl. méth. II. p. 40. N. 4.
— *fulvifrons Sow.* Spec. Conch. f. 122.
— — *Reeve* Conch syst. II. t. 185 f. 20.
— *unicarinatum Sow.* Thes. N. 84. p. 120. *) t. 26. f. 120.
— — *Chemn.* ed. II. N. 191. p. 174. t. 25. f. 7. (Ex Sow.)
Cyclophora unicarinata Swains. Malacol. p. 336.
Tropidophora unicarinata Pfr. in Zeitschr. f. Mal. 1847. p. 106.
— *tricarinata var. Gray* Catal. Cycloph. p. 39.
Cyclostomus unicarinatus Pfr. Consp. N. 302.

Habitat in insula Madagascar.

§. 4.

29. **C.? vittatus Sowerby.** 342

T. umbilicata, depressa, subdiscoidea, solidiuscula, oblique confertim striata lineisque spiralibus confertissimis, medio anfractus ultimi obsoletioribus, notata, subopaca, albida, interdum irregulariter luteo-strigata, fasciis 8—14 castaneis, inaequalibus ornata; spira parum elevata, submucronata; anfr. 5 convexi, ultimus magnus, subdepressus; umbilicus latissimus, perspectivus; apertura parum obliqua, ovalis, intus fulva, fusco-fasciata; perist. albicans, breviter reflexum, marginibus fere contiguis, callo albo subemarginato junctis, dextro superne repando. — Operc.? — Diam. maj. 38, min. 31, alt. 19 mill. Ap. intus oblique 16 mill. longa, 14 lata. (Coll. Nr. 146.)

Cyclostoma vittatum Sow. Spec. Conch. f. 91—94.
— — *Sow.* Thes. N. 62. p. 112. t. 25. f. 89. 90. **)
— — *Reeve* Conch. syst. II. t. 185. f. 22.
— — *Chemn.* ed. II. Cycl. N. 82. p. 87. t. 11. f. 5. 6.
Cyclophorus? vittatus Pfr. in Zeitschr. f. Malak. 1847. p. 108. Consp. N. 124.
— — *Gray* Catal. Cycloph. p. 21. N. 28.

Habitat in insula Madagascar.

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*) T. globoso-conica, pallida, spiraliter fusco-fasciata, spira acuminata; anfr. 4—6 rotundatis, laevibus, medio ultimi carina alba solitaria; apertura circulari, superne subangulata; peritremate albo, incrassato, revoluto; umbilico mediocri, spiraliter sulcato. (Sow. l. c.)

**) T. subdiscoidea, spira elevatiuscula; anfr. 5 rotundatis, albicantibus, spiraliter fusco-fasciatis, superne spiraliter striatis; sutura distincta; apertura magna, circulari, intus fulva, fusco-fasciata; peritremate albicante, reflexo; umbilico amplo, anfractibus intus conspicuis. (Sow. l. c.)

343 30. **C.? Moulinsii Grateloup.**

T. umbilicata, orbiculata, solidiuscula, spiraliter confertim subsulcata, fulvescenti-albida, lineis confertis spadiceis, interdum confluentibus, fasciaque 1 peripherica latiore ornata, basi pallidior; spira brevissima, mucronata; anfr. 5 convexi, celeriter accrescentes, ultimus ad suturam impressus; umbilicus latus, perspectivus; apertura obliqua, subcircularis, intus castaneo et albo fasciata; perist. undique breviter expansum, marginibus fere contiguis, callo lunatim exciso junctis, dextro superne subsinuato. — Operc.? — Diam. maj. 34, min. 26, alt. 16 mill. Ap. intus 14 mill. longa. (Mus. Cuming.)

Cyclostoma Moulinsii Grat. Act. Soc. Linn. Bord. XI. p. 444. t. 3. f. 19. *)
— — *Chemn.* ed. II. N. 6. p. 15. t. 2. f. 18. 19.
— *Desmoulinsii Sow.* Thes. N. 97. p. 125. t 25. f. 97. **)
Cyclophorus Moulinsii Pfr. in Zeitschr. f. Malak. 1847. p. 108. Consp. N. 125.
— — *Gray* Catal. Cycloph. p. 21. N. 27.

Habitat in insula Madagascar.

§. 5.

344 31. **C. euchilus Pfr.**

T. umbilicata, turbinato-subglobosa, solidula, oblique confertim striata, lineis impressis distantioribus obsolete clathratula, parum nitida, albida, violaceo-fusco et fulvo variegata; spira turbinato-elevata, apice acutiuscula; anfr. $5^1/_2$ convexi, rapide accrescentes, ultimus rotundatus, ad suturam subdepressus, medio albo-fasciatus, basi confertim et valide spiraliter sulcatus; umbilicus mediocris, infundibuliformis; apertura vix obliqua, subangulato-circularis, intus purpurascenti-carneo micans; perist. subcontinuum, album, marginibus superne dilatatis, callo subemarginato junctis, dextro et basali latissimis,

*) T. orbiculato-subturbinata, valde depressa, late et profunde umbilicata, transversim sulcata vel lamellata, luteo et rufo variegata, flammulis longitudinalibus pallide flavis ornata; spira brevi, acuta, ad verticem nitida; apertura obrotunda; labro acutissimo. — Alt. 23—24, diam. 34 mill. (Grat. l. c.)

**) T. suborbiculari, depressiuscula, tenuiuscula, pallescente, strigis plurimis irregularibus fuscis spiraliter picta; spira brevi; anfr. $4^1/_2$ rotundatis, leviter spiraliter striatis, rapide crescentibus, ultimo maximo; sutura tenui, angusta; apertura fere circulari, postice subangulata; peritremate angusto, reflexo, prope ultimum anfractum subexpanso; umbilico magno. (Sow. l. c.)

fornicatim revolutis, sinistro angustato, vix reflexo. — Operc.? -- Diam. maj. 43, min. 32, alt. 28 mill. Ap. intus 18 mill. longa, 17 lata. (Mus. Cuming. et Gruner.)

Cyclostoma euchilum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 288. t. 39. f. 3. 4.
Cyclostomus euchilus Pfr. Consp. N. 303. p. 72.

Habitat in insula Madagascar.

32. C. multifasciatus Grateloup. 345

T. turbinato-conica, multifasciata, subumbilicata, transversim striata; umbilicus tectus; spira exsertiuscula, acutissima; anfr. 7 rotundati, ultimus ventricosus; apertura patula, subrotunda, intus fasciata; labrum extus reflexum, margine candido; columella callosa, crocea. — Alt. 30—35, diam. 30—35 mill. (Grat.)

Cyclostoma multifasciata Grat. in Act. Soc. Linn. Bord. XI. p. 436. t. 3. f. 3. *)
Tropidophora? multifasciatum Gray Catal. Cycloph. p. 41. N. 16.
Cyclostomus multifasciatus Pfr. Consp. N. 304.

Habitat in insula Madagascar (Duisabo).

33. C. zonatus Petit. 346

T. subumbilicata, globoso-pyramidata, tenuiuscula, sublaevigata (sub lente lineis longitudinalibus et spiralibus decussatula), albo-cinerascens; spira conica, acutiuscula; sutura subprofunda; anfr. 6 rotundati, ultimus ventrosus, fascia lata nigrescente infra medium cinctus, basi circa umbilicum spiraliter sulcatus; apertura subverticalis, ovato-circularis; perist. interruptum, lacteum, late reflexum. — Diam. maj. et alt. 28 mill. (Ex ic.)

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*) Cette espèce a des rapports de forme et de coloration avec la précédente *(C. Duisabonis)*, mais elle est plus élancée, moins trochoide, à spire plus allongée: elle se présente ordinairement avec son opercule et n'est point carénée. La surface est couverte d'un grand nombre de bandes régulières, d'un brun rougeâtre, bien dessinées, sur un fond jaune ou blanc; l'ouverture est arrondie, évasée, montrant intérieurement les fascies plus prononcées qu'à l'extérieur de la coquille; le péristome est blanc, arrondi et réfléchi extérieurement. L'ombilic est entièrement couvert par une callosité columellaire d'un rouge de safran. Sept tours de spire arrondis, le dernier très-ventru, les premiers presque lisses et les intermédiaires offrant un treillissage élégant, provenant de l'entre-croisement de très-fines stries longitudinales et transverses. (Grat. l. c.)

Cyclostoma zonatum Petit in Journ. Conch. 1850. I. p. 50. t. 4. f. 7. *)
Cyclostomus zonatus Pfr. Consp. N. 305.

β. T. minore, uni-vel multizonata, peristomatis margine dextro late expanso, columellari angusto, superne in laminam brevem, umbilicum fere claudentem reflexo; diam. maj. 20, min 15, alt. 20 mill. (Mus. Cuming.)
Cyclostoma zonatum var. Chemn. ed. II. N. 291. t. 39. f. 22. 23.

Habitat in insula Madagascar.

Obs. Nonne speciei praecedenti nimis affinis?

347 34. **C. obsoletus Lamarck.**

T. umbilicata, turbinata, solidula, superne spiraliter obsolete striata, nitidula, cinerea, fasciis coeruleo-fuscis variis ornata; spira conica, acutiuscula; anfr. 6 convexi, ultimus circa umbilicum infundibuliformem spiraliter profunde sulcatus; apertura vix obliqua, ovalis, intus livido-castanea; perist. simplex, album, late expansum, callo margines jungente emarginatione semilunari interrupto. —. Operc.? — Diam. maj. 29, min. 23, alt. 22 mill. Ap. intus 13 mill. longa, 12 lata. (Coll. Nr. 147.)

Cyclostoma obsoleta Lam. Hist. VI. p. 144. N. 7. Ed. Desh. VIII. p. 355. **)
— — *Deless.* Recueil t. 29. f. 11.
— *obsoletum Reeve* Conch. syst. II. t. 183. f. 4.
— — *Sow.* Thes. N. 88. p. 121. t. 27. f. 124. ***)
— — *Chemn.* ed. II. N. 23. p. 32. t. 5. f. 8. 9.
Tropidophora obsoleta Gray Catal. Cycloph. p. 40. N. 6.
Cyclostomus obsoletus Pfr. Consp. N. 306.
β? *Cyclostoma obsoleta var. marmorata Grat.* Act. Bord XI. p. 443. t. 3. f. 17. †)

Habitat in insula Madagascar.

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*) T. conico-pyramidata, subumbilicata, levis, albo-cinerascens; spira conico-acuta; anfr. 6 rotundatis, lineis longitudinalibus transversimque obsolete notatis, ultimo fascia nigrescente sub medium cincto; apertura subrotunda, intus luteo-fulva, zonis decurrentibus duabus, superiore lineari, inferiore latiori ornata; labro lacteo, late reflexo; umbilico concentrice tenue sulcato. (Petit l. c.)

**) T. orbiculata, subtrochiformi, profunde umbilicata, longitudinaliter tenuissime striata, cinerea, fasciis caeruleo-fuscis obsoletis cincta; spira brevi, acuta; labro margine albo, reflexo. — Diam. 14'''. (Lam. l. c.)

***) T. globoso-conoidali, alba, fusco-fasciata, spira subacuminata, anfr. rotundatis, laevibus, ultimo ventricoso; apertura circulari; peritremate albo, reflexo, subrevoluto, superne subacuminato; umbilico magno, spiraliter sulcato. (Sow. l. c.)

†) T. crassa, subtrochiformi, umbilicata, epidermata, laevigata; spira

35. C. citrinus Sowerby. 348

T. umbilicata, globoso-turbinata, solidula, superne confertim et leviter spiraliter striata, nitidula, alba vel lutescens; spira turbinata, obtusiuscula; anfr. 6 convexi, ultimus peripheria laevigatus, circa umbilicum infundibuliformem spiraliter confertim sulcatus; apertura parum obliqua, circularis; perist. expansum et reflexum, marginibus approximatis, callo lunatim emarginato junctis, dextro superne subrepando. — Operc.? — Diam. maj. 32, min. 26, alt. 21 mill. Ap. intus 12 mill. longa. (Mus. Brit.)

Cyclostoma citrinum Sow. Thes. N. 76. p. 117. t. 25. f. 104. *)
— — *Chemn.* ed. II. N. 170. p. 157. t. 21. f. 22. (Ex Sow.)
Tropidophora citrina Gray Catal. Cycloph. p. 41. N. 11.
Cyclostomus citrinus Pfr. Consp. N. 307.
β? T. minore superne distinctius decussata. (Mus. Cuming.)
Cyclostoma rugosum Sow. Thes. N. 87. p. 121. t. 26. f. 123. **) Nec Lam.
— *semidecussatum Pfr.* in Zeitschr. f. Mal. 1847. p. 106.
— — *Chemn.* ed. II. N. 168. p. 156. t. 21. f. 17—19.

Habitat Trinidad.

36. C. xanthochilus Sowerby. 349

T. umbilicata, globoso-conica, solida, irregulariter striatula, parum nitida, griseo-fulva, spadiceo obsolete strigata et fasciata; spira turbinata, acutiuscula; anfr. 6 convexi, ultimus rotundatus, basi subplanatus; umbilicus angustus, vix pervius; apertura fere verticalis, subcircularis, intus nitida, nigricans; perist. subinterruptum, undique breviter expansum, fusco-aurantiacum, marginibus callo brevi subemarginato junctis. — Operc. testaceum, sordide album, extus concaviusculum, anfr.

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brevi, acuta; anfractibus convexis; ultimo anfractu majore subtus fasciato, supra punctis maculisve variegato; apertura circulari; peristomate crassissimo, albo, reflexo. — Alt. 20 mill., diam. bas. 30 mill. Madagascar. (Grat. l. c.)

*) T. subglobosa, spira conoidali, anfr. 5 ventricosis, pallide aurantiacis, superne spiraliter striatis, infra laevigatis; sutura distincta; apertura circulari; peritremate valde reflexo, rotundato, albo; umbilico magno, spiraliter sulcato. — Habitat? (Sow. l. c.)

**) T. globoso-conica, albida, spira brevi, depressiuscula, apice acuminatiusculo; anfr. 5; superne exquisite decussatim striatis, infra laevibus; apertura circulari; peritremate revoluto, latere umbilicali tenui, expanso; umbilico magno, intus laevi. — Trinidad. (Sow. l. c.)

4, nucleo subcentrali. — Diam. maj. 27, min. 21, alt. 20 mill. Ap. intus 12 mill. longa, $11\frac{1}{2}$ lata. (Coll. Nr. 148.)

Cyclostoma xanthocheilus Sow. Thes. Suppl. N. 179. p. 158 *. t. 31 A. f. 294. 295. *)

— *xanthochilum Chemn.* ed. II. N. 233. t. 34. f. 5. 6.

Cyclostomus xanthochilus Pfr. Consp. N. 308.

Habitat in insula Madagascar.

350 37. **C. Sowerbyi Pfr.**

T. mediocriter umbilicata, globoso-conoidea, solidiuscula, striis incrementi distinctis, confertissimis, lineisque spiralibus elevatis superne subreticulata, cinnamomea, sursum lutescens, liris superis castaneis, albo-articulatis; spira conoidea, apice obtusiuscula; anfr. 5 convexi, ultimus infra peripheriam castaneo-unifasciatus, sublaevigatus, antice violacescens; apertura fere verticalis, circularis, intus fulvescens; perist. continuum, album, late expansum et breviter reflexum, anfractui penultimo breviter adnatum. — Operc. testaceum, extus concaviusculum, anfr. 4, nucleo vix excentrico. — Diam. maj. 22, min. $16\frac{1}{2}$, alt. 15 mill. Ap. intus 9, c. perist. $12\frac{1}{2}$ mill. longa. (Coll. Nr. 149.)

Cyclostoma megacheilus Sow. Thes. N. 114. p. 131. t. 31. f. 276. **) Nec Potiez & Mich.

— *Sowerbyi Pfr.* in Zeitschr. f. Mal. 1847. p. 58.

— — *Chemn.* ed. II. N. 151. p. 143. t. 19. f. 10—12.

Cyclophorus? Sowerbyi Pfr. in Zeitschr. f. Mal. 1847. p. 107.

— — *Gray* Catal. Cycloph. p. 18. N. 12.

Cyclostomus Sowerbyi Pfr. Consp. N. 309.

Habitat . . .?

§. 6.

351 38. **C. aplustre Sowerby.**

T. umbilicata, globoso-turbinata, tenuis, lineis incrementi et spiralibus confertissimis subtiliter reticulata, haud nitida,

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*) T. conico-subglobosa, laevi, aurantiaco-brunnea, fusco uni- vel bifasciata; spira subelevato-conica, obtusiuscula; anfr. 5 rotundatis; primis unifasciatis, ultimo pallide bifasciato; sutura distincta; apertura circulari, purpureo-nigricante; peritremate aurantiaco, subincrassato, reflexo, postice subexpanso, supra umbilicum revoluto; umbilico parvo, operculo subtestaceo, paucispirali. (Sow. l. c.)

**) T. globoso-conica, crassiuscula, brunnescente, fascia ante mediam castanea; spira breviuscula; anfr. $4\frac{1}{2}$ rotundatis, postice lineis levatis spiralibus, albo castaneoque articulatis, ultimo antice laevi; apertura circulari, peritremate crasso, reflexo, rotundato, albicante; umbilico mediocri. (Sow. l. c.)

alba, fasciis 5—6 fuscis superne ornata; spira turbinata, acutiuscula; anfr. 5½ convexi, celeriter accrescentes, ultimus teres, non descendens, basi subunicolor; umbilicus mediocris, profundus; apertura obliqua, subangulato-circularis, fasciis intus castaneis; perist. simplex, tenue, interruptum, breviter expansum, margine columellari breviter dilatato-reflexo. — Operc.? — Diam. maj. 29, min. 25, alt. 22 mill. (Mus. Cuming.)

Cyclostoma aplustre Sow. in Proc. Zool. Soc. 1849. p. 15. Moll. t. 2. f. 4. 5.*)
— — *Chemn.* ed. II. N. 230. t. 33. f. 5—7.
Tropidophora aplustris Gray Catal. Cycloph. p. 40. N. 7.
Cyclostomus aplustre Pfr. Consp. N. 310.

Habitat in insula Madagascar.

39 **C. asper Potiez & Michaud.** 352

T. umbilicata, subgloboso-conica, solida, spiraliter confertim sulcata, striis incrementi subdecussata, fulvida; spira conoidea, subretusa; anfr. 5 convexi, summi pallidi, ultimus ad peripheriam fascia albida et infra hanc fascia fusca cinctus; apertura subcircularis, intus brunnea; perist. expansum, album, marginibus approximatis, callo subemarginato junctis, columellari dilatato, reflexo. — Operc.? — Diam. maj. 28, min. 22, alt. 20 mill. (Mus. Cuming.)

Cyclostoma asperum Pot. & Mich. Gal. Douai I. p. 233. t. 23. f. 15. 16.**)
— — *Chemn.* ed. II. N. 86. p. 90. t. 11. f. 3. 4.
— *Harveyanum Sow.* Spec. Conch. f. 210*.
— — *Reeve* Conch. syst. II. t. 184. f. 13.
— — *Sow.* Thes. N. 106. p. 128. t. 30 f. 250.***)

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*) T. suborbiculari, tenuiuscula, laevi, albicante, fasciis nonnullis posticis, angustis, castaneis, subinterruptis, striisque tenuissimis spiralibus, ornata; spira levatiuscula, subacuminata, apice obtuso; anfr. 5 rotundatis, creberrimê transversim striatis, striis posticis fortioribus, anticis fere obsoletis; umbilico magno, intus spiraliter striato, striis tenuissimis; apertura fere circulari, postice paululum acuminata, peritremate tenui, acuto, supra umbilicum paululum reflexo. (Sow. l. c.)

**) T. late umbilicata, trochiformis, albida, fusco-fasciata, undique transversim sulcata; spira elata, acuta; anfr. 5 convexi, ultimus permagnus; apertura fere circularis, superne subangulata, intus brunnea; perist album, reflexum. — Alt. 20—25, diam bas. 30 mill. (Pot. et Mich. l. c.)

***) T. subgloboso-conica, crassiuscula, spiraliter sulcata, fulvescente, spirâe apice obtuso; anfr. 4½ rotundatis, tenerrime transversim striatis, ultimo fascia fusca antemediana; apertura circulari; peritremate albido, subincrassato, subreflexo, postice paululum acuminato; umbilico majusculo. (Sow. l. c.)

Tropidophora aspera Gray Catal. Cycloph. p. 40. N. 9.
Cyclostomus asper Pfr. Consp. N. 311.

Habitat in insula Madagascar.

353 **40. C. pyrostomus Sowerby.**

T. umbilicata, globoso-turbinata, solidiuscula, sublaevigata, superne spiraliter subsulcata, nitida, fulvescenti-carnea vel albida, obsolete strigata et infra peripheriam pallide lilaceo-unifasciata; spira turbinata, acutiuscula; anfr. $5^1/_2$ convexi, ultimus teres, basi glaber; umbilicus mediocris; apertura parum obliqua, subovali-rotunda, intus antice nigricans; perist. simplex, igneum, marginibus callo brevi, emarginato junctis, dextro vix expanso, columellari reflexiusculo. — Operc.? — Diam. maj. 25, min. 21, alt. 18 mill. (Mus. Cuming.)

Cyclostoma haemastoma Grat. in Act. Bord. XI. p. 437. t. 3. f. 5.*) Nec Anton.
— *pyrostoma Sow.* Spec. Conch. f. 227. 228.
— — *Reeve* Conch. syst. II. t. 183. f. 9.
— — *Sow.* Thes. N. 108. p. 129. t. 29. f. 200.**)
— — *Chemn.* ed. II. N. 171. p. 157. t. 21. f. 23. (Ex Sow.) t. 34. f. 1. 2.
Tropidophora? pyrostoma Gray Catal. Cycloph. p. 41. N. 13.
Cyclostomus pyrostomus Pfr. Consp. N. 312.

β. Testa minore, albida, fascia lilacea pallidissima; diam. maj. $18^1/_2$, min. $15^1/_2$, alt. 14 mill. (Mus. Cuming.)
Cyclostoma pyrostoma var. Chemn. l. c. t. 34. f. 3. 4.

Habitat Madagascar, Mayotte.

354 **41. C.? striatulus Pfr.**

T. umbilicata, globoso-turbinata, solida, oblique striatula et lineis concentricis elevatis subconfertis superne sculpta, vix nitidula, flavescenti-albida; spira breviter turbinata, apice obtusiuscula; anfr. 5 convexi, summi laevigati, ultimus turgidus,

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*) T. turbinato-conica, late umbilicata, transversim striata, vix subcarinata; umbilico pervio; spira exsertiuscula, acuminata; anfr. 5 rotundatis; apertura rotunda; peristomate rubro, laevigato, extus subreflexo. — Alt. 20, diam. 25 mill. — Affinis C. aspero Pot. & Mich. (Grat. l. c.)

**) T. subgloboso-conica, tenuiuscula, flavescente, aurantiaco pallide strigata, spira mediocri, apice obtusiusculo; anfr. 5 rotundatis, postice spiraliter striatis; sutura distincta; apertura fere circulari; peritremate aurantiaco, subincrassato, rotundato, subreflexo, postice subacuminato, prope ultimum anfractum subinterrupto; umbilico magno. (Sow. l. c.)

peripheria obsolete subangulatus; umbilicus mediocris, profundus; apertura parum obliqua, subangulato-circularis; perist. continuum, breviter adnatum, incrassatum, expansiusculum, superne angulatum. — Operc.? — Diam. maj. 25½, min. 21, alt. 15 mill. Ap. c. perist. 14 mill. longa. (Mus. Cuming.)

Cyclostoma striatulum Pfr. in Proc. Zool. Soc. 9 Mart. 1852.
— — *Chemn.* ed. II. N. 403. t. 49. f. 1. 2.

Habitat . . .?

42. C. fulvescens Sowerby. 355

T. umbilicata, globoso-conica, tenuiuscula, lineis elevatis spiralibus, confertis undique aequaliter sculpta, fusco-fulvescens; spira conica, apice acutiuscula; anfr. 5½ convexi, ultimus medio subangulatus; umbilicus angustus, pervius; apertura obliqua, ovalis, intus castanea; perist. simplex, tenue, pallidum, breviter expansum, marginibus fere contiguis. — Diam. maj. 22, min. 18, alt. 16 mill. Ap. 13 mill. longa, 11 lata. (Coll. Nr. 150.)

Cyclostoma fulvescens Sow. in Proc. Zool. Soc. 1843. p. 63. *)
— — *Sow.* Thes. N. 23. p. 99. t. 25. f. 79. 80.
— — *Chemn.* ed. II. N. 30. p. 39. t. 5. f. 10. 11.
Tropidophora? fulvescens Gray Catal. Cycloph. p. 41. N. 12.
Cyclostomus fulvescens Pfr. Consp. N. 313.

Habitat in insula Madagascar.

43. C. insularis Pfr. 356

T. perforata, globoso-conica, solidiuscula, spiraliter et obtuse crebrilirata, lineis confertissimis longitudinalibus subscabra, non nitens, sordide albida, fasciis nonnullis pallide violaceis picta; spira breviter turbinata, obtusula; anfr. 5 convexi, ad suturam minutissime crenulati, ultimus basi liris elevatioribus sculptus; apertura vix obliqua, subangulato-circularis; perist. tenue, undique expansum, reflexiusculum, marginibus approximatis, callo subemarginato junctis, supero repando, sinistro angustiore. — Operc.? — Diam. maj. 17, min. 13½, alt. 13½ mill. Ap. intus 9 mill. longa. (Mus. Cuming.)

*) T. globoso-conica, tenuiuscula, pallide brunnea; spira subacuminata; anfr. 5 rotundatis, confertim spiraliter striatis, ultimo maximo; apertura fere circulari; peritremate tenui; sutura distincta; umbilico parvo. (Sow. l. c.)

Cyclostoma insulare Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 368. t. 45. f. 5. 6.
Cyclostomus insularis Pfr. Consp. N. 314. p. 63.

Habitat Isle de France.

357 44. **C. reticulatus A. Adams et Reeve.**

T. umbilicata, turbinata, tenuiuscula, lineis elevatis spiralibus subobsoletis cincta, castanea, diaphana, strigis et maculis opacis albis irregulariter reticulata; spira turbinata, acutiuscula; anfr. 5 perconvexi, celeriter accrescentes, ultimus rotundatus, in umbilico mediocri obsolete sulcatus; apertura parum obliqua, subangulato-circularis; perist. subsimplex, castaneum, albolimbatum, marginibus breviter interruptis, callo junctis. — Operc. (ex Ad.) testaceum, extus in medio concavum, anfr. 4—5, margine sulcato. — Diam. maj. 16, min. 13, alt. 13 mill. (Mus. Cuming.)

Cyclostoma reticulatum A. Ad. et *Reeve* Voy. Samarang. Moll. p. 57. t. 14. f. 8.*)
— — *Chemn.* ed. II. N. 237. t. 34. f. 13—16.
Cyclostomus reticulatus Pfr. Consp. N. 315.

β. Major, striis spiralibus obsoletissimis, perist. latius expanso, subreflexo, umbilico latiore; diam. maj. 22, min. 17, alt 15 mill. (Mus. Cuming.)

Habitat in insula Madagascar.

Obs. Specimen a Cl. Auctt. figuratum intermedium videtur inter varietates duas Musaei Cumingiani descriptas.

358 45. **C. Goudotianus Sowerby.**

T. umbilicata, globoso-conica, tenuis, laevigata, spiraliter tenerrime striata, diaphana, luteo-fulva, castaneo 1—3-fasciata; spira conoidea, obtusiuscula; anfr. 5 convexi, ultimus inflatus, basi et in umbilico mediocri sulcis spiralibus argute exaratus; apertura subcircularis, intus concolor; perist. tenue, undique expansum, marginibus subdisjunctis, columellari reflexiusculo. — Operc.? — Diam. maj. 17, min. 14, alt. 14 mill. Ap. intus 9 mill. longa, 7½ lata. (Mus. Menke.)

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*) T. globoso-conica, subpellucida, spira subconoidali, apice obtuso, anfr. 5 ventricosis, brunneis, albo conspicue reticulatis, spiraliter carinatis, carinis fere obsoletis, multis, confertiusculis, apertura fere circulari, peritremate reflexo, superne acuminato, ad ultimum anfractum subinterrupto, umbilico magno, spiraliter sulcato. (Ad. & R. l. c.)

Cyclostoma Goudotianum Sow. Thes. N. 110. p. 130. t. 29. f. 193. *)
— — *Chemn.* ed. II. N. 106. p. 106. t. 13. f. 8—10.
— *ligatum var.? Krauss* Südafr. Moll. p. 82.
Cyclostomus Goudotianus Gray Catal. Cycloph. p. 43. N. 2.
— — *Pfr.* Consp. N. 316.

Habitat Natal Africae (Krauss); India orient. (Menke).

46. C. virgatus Sowerby. 359

T. vix subperforata, turrito-conica, tenuiuscula, laevigata, lutescens vel albida, lineis castaneis, fasciaque 1 latiore infra peripheriam cingulata; spira turrita, obtusiuscula; anfr. 6 convexi, ultimus teres, non descendens; apertura vix obliqua, ovali-rotundata, intus concolor; perist. acutum, vix expansum, marginibus disjunctis, columellari subdilatato-reflexo. — Operc. testaceum, planum, paucispirum, nucleo sublaterali. — Long. 19, diam. 11 mill. Ap. 9 mill. longa. (Coll. Nr. 151.)

Cyclostoma virgatum Sow. Thes. N. 111. p. 130. t. 29. f. 192. **)
— — *Chemn.* ed. II. N. 105. p. 106. t. 13. f. 1—4.
Cyclostomus virgatus Gray Catal. Cycloph. p. 44. N. 7.
— — *Pfr.* Consp. N. 317.

β. Spira minus elongata, aurantiaca, fascia 1 castanea infra peripheriam, linea 1 ad suturam et 2 basalibus:

Cyclostoma virgatum var. Chemn. l. c. t. 13. f. 5—7.
— *consocium Fér.* Mus.
Cyclostomus consocius Gray Catal. Cycloph. p. 43. N. 3.

Habitat in insula Madagascar.

47. C. Carolinensis Pfr. 360

T. umbilicata, turrito-conica, tenuiuscula, superne leviter et confertim spiraliter lirata, nitidula, alba; spira elongata, apice obtusula; anfr. 6 convexi, ultimus rotundatus, infra medium laevigatus; umbilicus angustus, non pervius; apertura

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*) T. subgloboso-conica, tenui, laevi; fulva, spira gradatim acuminata, apice obtuso, nigricante; anfr. 5 rotundatis, spiraliter tenerrime striatis et rufo-nigricante 4-fasciatis; apertura circulari; peritremate tenui, extus lato, reflexo, latere umbilicali angusto, reflexo; umbilico mediocri, spiraliter striato. (Sow. l. c.)

**) T. oblongo-pyramidali, tenuiuscula, pallescente, laevi, spira acuminata, apice obtusa; anfr. 5 rotundatis, spiraliter castaneo-fasciatis; apertura circulari; peritremate subreflexo, ad ultimum anfractum interrupto; umbilico parvo; operculo testaceo, paucispirali, anfractibus transversim undato-striatis. (Sow. l. c.)

vix obliqua, subcircularis; perist. simplex, acutum, marginibus approximatis, dextro recto, columellari medio dilatato, subreflexo. — Operc.? — Diam. maj. 12, min. 10, alt. 12 mill. Ap. 7 mill. longa. (Mus. Cuming.)

Cyclostoma Carolinense Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 344. t. 43. f. 10. 11.
Cyclostomus Carolinensis Pfr. Consp. N. 318. p. 63.

Habitat in insulis Carolinis.

361 48. **C. tenuis Sowerby.** †

T. globoso-pyramidalis, tenuis, albicans, opaca; spira acuminatiuscula, apice obtuso; anfr. 5—6 rotundati, postice spiraliter substriati, ultimus fulvo-unifasciatus, antice laevis; sutura profunda; apertura rotundata; peritrema tenue, subreflexum; umbilicus mediocris. (Sow.) — Operc.? — Long. 15, diam. 9 mill. Ap. 6½ mill. longa. (Ex ic.)

Cyclostoma tenue Sow. Thes. N. 134. p. 138. t. 31. f. 265.
— — *Chemn.* ed. II. N. 190. p. 174. t. 25. f. 11. (Ex Sow.)
Cyclostomus tenuis Gray Catal. Cycloph. p. 44. N. 9.
— — *Pfr.* Consp. N. 319.

Habitat in Africa (Gray).

362 49. **C. cincinnus Sowerby.**

T. anguste umbilicata, conica, tenuis, spiraliter confertim et subtiliter lirata, albida unicolor vel linea 1 fusca infra peripheriam cincta; spira conica, apice obtusiuscula; anfr. 5 convexi, ultimus medio sublaevigatus, basi circa umbilicum vix pervium confertim sulcatus; apertura fere verticalis, subcircularis; perist. simplex, acutum, marginibus fere contiguis, columellari reflexiusculo. — Long. 11, diam. 7½ mill. Ap. 5½ mill. longa. (Mus. Cuming.)

Cyclostoma cincinnus Sow. in Proc. Zool. Soc. 1843. p. 60. *)
— — *Sow.* Thes. N. 32. p. 102. t. 24. f. 77. 78.
— — *Chemn.* ed. II. N. 140. p. 134. t. 18. f. 1—3.
— *modestum Fér.* mss. in Mus. Brit.

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*) T. suborbiculari, subturrita, tenui, albida, interdum fusco-unifasciata; anfr. 5 rotundatis, postice spiraliter sulcatis, sulcis subdistantibus, antice spiraliter striatis; sutura distincta; apertura circulari; peritremate tenui, versus umbilicum parvum subreflexo; apice obtusiusculo. (Sow. l. c.)

Cyclostomus cincinnus Gray Catal. Cycloph. p. 44. N. 8.
— — *Pfr.* Consp. N. 320.

Habitat in insula Madagascar? (Gray.)

50. C. ligatulus Grateloup. † 363

T. oblongo-conoidea, tenuis, umbilicata, subturrita, multifasciata, transversim tenuiter striata; spira acuta; anfr. 5—6 convexi; apertura obovata; labrum acutum vix reflexum. — Alt. 14—15, diam. 10 mill. (Grat.)

Cyclostoma ligatula Grat. Act. Bord. XI. p. 445. t. 3. f. 20. *)
Cyclostomus? ligatulus Pfr. Consp. N. 321.

Habitat in insula Madagascar (Duisabo).

Obs. Nonne praecedenti nimis affinis?

51. C. Zanguebaricus Petit. 364

T. umbilicata, globoso-conica, tenuiuscula, lineis spiralibus obtusis subdistantibus cincta, albida vel lutescens; spira turbinata, acutiuscula; anfr. 5 convexi, ultimus ventrosus, lineis nonnullis castaneis et fascia 1 latiore infra medium ornatus, basi circa umbilicum angustum spiraliter sulcatus; apertura subverticalis, subangulato-circularis; perist. simplex, ad anfr. penultimum vix interruptum, brevissime expansiusculum. — Operc. (ex Petit) calcareum, nucleo subcentrali. – Diam. maj. 10, min. 9, alt. 8½ mill. (Mus. Cuming.)

Cyclostoma zanguebaricum Petit in Journ. Conch. 1850. I. p. 53. t. 3. f. 5. **)
— — *Chemn.* ed. II. N. 292. t. 39. f. 24. 25.
Cyclostomus zanguebaricus Pfr. Consp. N. 322.

Habitat in insula Zanzibar (Guillain).

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*) Cette jolie espèce de Cyclostome a des rapports avec le *C. ligata Lam.*: on le prendrait pour une variété; mais, certains caractères particuliers l'en distinguent nettement: par exemple, il est constamment beaucoup moins grand, beaucoup plus mince, plus fragile et n'est nullement sillonné en travers, mais recouvert d'une grande multitude de fascies brunes, transverses. Il a également de l'analogie avec le *C multilabre Quoy & Gaim.*; il en diffère cependant: son ouverture est plus arrondie; les linéoles de la surface moins marquées; il est ombiliqué, tandis que le C. multilabre ne l'est pas; 5 à 6 tours de spire arrondis, à sommet obtus. (Grat. l. c.)

**) T. ventricoso-conica, umbilicata, albida vel lutescente; anfr. 4—5, convexis, ultimo ventricoso, lineis fuscis spiraliter picto, mediana majori; apertura orbiculari superne subangulata; labro vix reflexo, umbilico mediocri, spiraliter sulcato. (Petit l. c.)

365 52. **C. subliratus Pfr.**

T. angustissime umbilicata, globoso-conica, tenuis, spiraliter lirata, haud nitens, pallide rubello-cornea; spira elevato-turbinata, apice obtusula; anfr. 5 convexi, ultimus rotundatus, obsoletius liratus; apertura parum obliqua, oblongato-rotunda; perist. simplex, tenue, vix expansiusculum, marginibus fere contiguis, callo junctis. — Operc.? — Diam. maj. 10, min. 8, alt. 9 mill. Ap. $5^1/_2$ mill. longa. (Mus. Cuming.)

Cyclostoma subliratum Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 348. t. 43. f. 37. 38.
Cyclostomus subliratus Pfr. Consp. N. 323. p. 64.

Habitat . . .?

366 53. **C. Novae Hiberniae Quoy et Gaimard.**

T. minima, ventricoso-conica, perforata, apice acuta, longitrorsum striata, rufula; spira virescens; anfr. quini et sesqui; apertura dilatata, intus rubra, tantisper reflexa. — Operc. calcareum, orbiculare, multispirum. — Long. 5, diam. 4 lin. (Quoy.)

Cyclostoma Novae Hiberniae Quoy & Gaim. Voy. Astrol. II. p. 182. t. 12. f. 15-19.
— — — *Desh.* in Lam. hist. VIII. p. 368. N. 33.*)
— — — *Chemn.* ed. II. N. 199. p. 179. t. 30. f. 36. 37. (Ex Quoy.)
Cyclostomus Novae Hiberniae Gray Catal. Cycloph. p. 43. N. 4.
— — — *Pfr.* Consp. N. 324.

β? Major; diam. maj. 11, min. $8^1/_2$, alt. 9 mill.; ap. 7 mill. longa, $6^1/_2$ lata. (Mus. Cuming.)

Cyclostoma vitreum Sow. Thes. N. 124. p. 134. t. 30. f. 252.**)
— — *Chemn.* ed. II. N. 172. p. 158. t. 21. f. 24—26.***)

Habitat ad Portum Carteret Novae Hiberniae. (Quoy.)

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*) Long. 12, lat. 10 mill. (Desh. l. c.)

**) T. globoso-conica, tenuiuscula, laevi, subpellucida, fulvescente, spira acuminata, anfr. 5—6, rapide crescentibus, rotundatis, sutura distincta; apertura fere circulari, peritremate albo, incrassato, reflexo, ad ultimum anfractum subinterrupto, latere umbilicali subsinuato, demum latiori, subangulato; umbilico parvo; operculo testaceo, extus concavo, anfract. 4—5. — New Ireland. (Sow. l. c.)

***) T. perforata, turbinato-globosa, tenui, striatula, diaphana, pallide succinea; spira turbinata, acuta; anfr. $5^1/_2$ convexiusculis, ultimo magno, rotundato; apertura ampla, subverticali, fere circulari; perist. subcontinuo, incrassato, breviter expanso, infra umbilicum angustissimum, non pervium, lunatim exciso, margine sinistro medio angulatim dilatato, patente. (Pfr. l. c.)

Obs. Species ex Cl. Deshayes *Cycl. luteae Less.* persimilis, operculo calcareo statim distinguenda. — Testae Musaei Cumingiani, a Cl. Sowerby, nec non a me nomine *Cycl. vitrei* descriptae, a Cl. Hinds in Nova Hibernia collectae sunt et huc potius pertinere videntur.

54. **C.? filocinctus Benson.** † 367

T. subaperte umbilicata, turbinato-globosa, infra spatium humerale glabrum lineis frequentibus elevatis cingulata, albida, epidermide fusca induta; spira elevata, subconica, sutura impressa, apice papillari; anfr. $4\frac{1}{2}$ rotundati, ultimus cylindraceus; apertura circularis, superne vix angulata, prope umbilicum leviter sinuata, $\frac{2}{5}$ longitudinis aequans; perist. duplex, interius simplex, acutum, exterius breviter reflexum; umbilicus profundus, perspectivus. — Diam. maj. 3, min. $2\frac{1}{2}$, alt. $2\frac{1}{2}$ mill. (Bens.)

Cyclostoma filocinctum Bens. in Ann. and Mag. 1851. VIII.
Cyclostomus? filocinctus Pfr. Consp. N. 325.

Habitat ad apices montium Nilgherries (Jerdon).

§. 7.

55. **C. ligatus (Nerita) Müller.** 368

T. umbilicata, turbinata, solidiuscula, striis longitudinalibus et spiralibus obsolete reticulata, nitidula, fulvescenti-carnea, fasciis angustis coerulescenti-fuscis varie cingulata; spira conica, apice obtusiuscula, cinerea; anfr. 5 convexi, ultimus circa umbilicum angustum, vix pervium distinctius sulcatus; apertura vix obliqua, subcircularis, intus aurantiaca, fasciis pellucentibus; perist. continuum, breviter adnatum, rectum, superne subangulatum, margine sinistro subincrassato. — Operc. testaceum, planiusculum, anfr. 4 subrapide accrescentibus. — Diam. maj. 20, min. 17, alt. 18 mill. Ap. 12 mill. longa. (Coll. Nr. 152.)

Nerita ligata Müll. Hist. verm. II. p. 181. N. 368.*)
Turbo ligatus Chemn. Conch. IX. P. II. p. 60. t. 123. f. 1071. 1072.**)

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*) T. ventricosa, acuminata, subumbilicata, fasciis rubris, apertura circulari. — Long. 6—11, lat. 6—10 lin. — Testa perquam dura, pellucida; alba vel lutea, subtiliter et eleganter in non detritis *in utrumque sensum striata*, fasciis 4 vel 5 rubris notata. Anfractus 5 vel 6 valde convexi, et eximie decrescentes. Apertura circinnata, columellae adnata, margine crassiusculo. Fasciaé intus ac extus aeque conspicuae. Centrum subumbilicatum, pervium. Variat numero fasciarum et defectu striarum circularium in inferiori pagina. (Müll. l. c.)

**) T. subglobosa, fasciata, umbilicata, ore circulari. (Chemn. l. c.)

Turbo ligatus Dillw. Descr. cat. II. p. 865. N. 120.
— — *Wood.* Ind. t. 32. f. 122.
Cyclostoma ligata Lam. Hist. VI p. 147. N. 21. Ed Desh. VIII. p. 359. N. 20. *)
— *ligatum Chemn.* ed. II. N. 24. p. 33. t. 4. f. 12. 13. t. 8. f. 3. 4.
— — *Pot.* et *Mich.* Gal. I. p. 234. t. 23. f. 23. 24?
— — *Krauss* Südafr. Moll. p. 82.
Cyclophora ligata Swains. Malac. p. 336?
Cyclostomus ligatus Gray Catal. Cycloph. p. 42. N. 1.
— — *Pfr.* Consp. N. 326.

β. Minor; diam. maj 15, min. 12, alt. 13 mill. Ap. $8^1/_2$ mill. longa. (Coll.)
Cyclostoma affine Sow. Thes. N. 22. p. 98. t. 23. f. 25. 26.**)
— — *Chemn.* ed. II. N. 57. p. 62. t. 8. f. 17. 18.
— *ligatum var. Krauss* Südafr. Moll. p. 82.
Cyclostomus ligatus var. Gray Catal. Cycl. p. 43.

Habitat in Promontorio Bonae Spei, Simon's Bay, Natal.

Obs. Conf. *Otopoma Philippianum* (p. 183.).

369 **56. C. lineatus Pfr.**

T. umbilicata, globoso-conica, tenuiuscula, laevigata, diaphana, fulva, lineis castaneis, alternis subtilioribus, subinterruptis picta; spira turbinata, acutiuscula; anfr. $5^1/_2$ convexi, ultimus rotundatus, infra peripheriam fascia latiore ornatus, in umbilico angusto, vix pervio spiraliter confertim sulcatus; apertura vix obliqua, subangulato-circularis; perist. simplex, rectum, album, marginibus approximatis, callo subemarginato junctis. — Operc.? — Diam. maj. 15, min. 13, alt. 13 mill. Ap. 8 mill. longa. (Mus. Cuming.)

Cyclostoma lineatum Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 367. t. 45. f. 3. 4.
Cyclostomus lineatus Pfr. Consp. N. 327. p. 64.

Habitat . . .?

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*) T. subglobosa, ventricosa, umbilicata, glabra, nitida, albo-rubente, apice lutea; fasciis transversis rubro-fuscis; spira brevi, acuta; labro margine crassiusculo, reflexo. — Diam. bas. $7^1/_2$'''. (Lam. l. c.) An potius ad *C. Philippianum* referendum?

**) T. tenui, subglobosa, spira conoidea, subacuminata; apice obtuso; anfr. 4 5 rotundatis, laevigatis; apertura circulari, superne subangulata; peritremate tenui, latere umbilicali paululum reflexo; umbilico parvo, spiraliter sulcato; operculo laevigato, nucleo sublaterali. (Sow. l. c.)

57. **C. undulatus Sowerby.** 370

T. perforata, globoso-conica, solida, undique spiraliter sulcata (sulcis ad suturam et basin majoribus), fulvido-carnea, fascia 1 castanea infra peripheriam cincta; spira conica, acutiuscula; anfr. 5 convexi, celeriter accrescentes, juxta suturam undulato-plicati; apertura obliqua, subcircularis, intus fusca, albo et castaneo fasciata; perist. simplex, rectum, marginibus angulatim junctis, dextro subrepando, columellari subincrassato-dilatato. — Operc.? — Diam. maj. 13, min. 11, alt. 12 mill. Ap. $7^1/_2$ mill. longa. (Mus. Cuming.)

Cyclostoma fimbriata Lam. Hist. VI. p. 148. N. 24 Ed. Desh. VIII. p. 360. N. 23. *) Nec Schum., nec Quoy et Gaim., nec Deless.
— *fimbriatum Petit* in Journ. Conch. 1850. I. p. 42.
— *undulatum Sow.* Thes. N. 25. p. 99. t. 23 f. 29. 30. **)
— — *Chemn.* ed. II. N. 94. p. 97. t. 12. f. 24—26.
Cyclostomus undulatus Gray Catal. Cycloph. p. 44. N. 6.
— *fimbriatus Pfr.* Consp. N. 328.

Habitat in insula Mauritii (Petit, Benson).

Obs. Etsi non omnino constet, quid sit *Annularia fimbriata Schum.*, tamen nomen *C. fimbriati* speciei Chemnitzianae reservandum est. Conf. n. 268.

58. **C. glaucus Sowerby.** 371

T. perforata, ovato-conica, crassiuscula, fulvescenti-lilacina, confertim spiraliter striata; spira conoidea, obtusiuscula; sutura levis, albomarginata, subcrenulata; anfr. $4^1/_2$ convexiusculi, ultimus interdum antice breviter solutus; umbilicus minimus, non pervius; apertura subangulato-ovalis, intus fulva, nitida; perist. rectum, marginibus superne angulatim junctis, sinistro subincrassato. — Operc. terminale, testaceum, planum, anfr. subrapide crescentibus. — Long. 15, diam. 10 mill. Ap. 8 mill. longa. (Mus. Philippi.)

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*) T. ventricoso-conoidea, subperforata, transversim striata, albido-lutescente; anfractuum margine superiore plicis fimbriato; spira brevi, acuta; apertura lutea. — Diam. $5^1/_2$'''. — Nova Hollandia teste Labillardière. (Lam. l. c.)

**) T. globoso-conoidea, crassiuscula, spira acuminatiuscula, apice obtuso; anfr. 5 ventricosis, spiraliter sulcatis, superne prope suturam distinctam undulatis; apertura fere circulari, superne obtusissime emarginata; peritremate tenui, latere umbilicali in callum incrassatum, supra umbilicum parvum extenso, umbilico spiraliter sulcato — Bengalia. Sow. l c.)

Cyclostoma glaucum Sow. Thes. N. 28. p. 100. t. 24. f. 39. *)
— — *Chemn.* ed. II. N. 67. p. 72. t. 9. f. 3—5.
— *striatum Menke* Syn. ed. II. p. 40 (absque descriptione).
— *breviale Gray* mss. olim in Mus. Brit.
Cyclostomus glaucus Gray Catal. Cycloph. p. 45. N. 11.
— — *Pfr.* Consp. N. 329.

Habitat Alexandrette.

372 59. **C. costulatus Ziegler.**

T. perforata, conoideo-globosa, solidiuscula, lineis elevatis spiralibus crebre costulata, interstitiis decussatim minute striatis, griseo-rubella; spira conoidea, apice mammillata, cerasina; anfr. 5 convexi, ultimus ventrosus; umbilicus angustissimus, non pervius; apertura vix obliqua, ovali-subcircularis; perist. simplex, rectum, continuum, superne subangulatum. — Operc. terminale, testaceum, anfr. 5 sensim accrescentibus, nucleo nigro vix excentrico. — Long. 15, diam. 11 mill. Ap. 8 mill. longa. (Coll. Nr. 153.)

Cyclostoma costulatum Ziegl. Mus.
— — *Rossm.* Ic. VI. p. 49. t. 28. f. 395. **)
— — *Pot.* et *Mich.* Gal. I. p. 234. t. 24. f. 1. 2.
— — *Chemn.* ed. II. N. 66. p. 71. t. 9. f. 6—8.
— *sulcatum Sow.* Thes. N. 27. p. 100. t. 23. f. 31. ***)
Cyclostomus costulatus Gray Catal. Cycloph. p. 44. N. 10.
— — *Pfr.* Consp. N. 330.

β. Testa majore, carneo-albida, sursum fulvida; long. 19, diam. 13 mill.; ap. 10 mill. longa. (Coll.)

Cyclostoma Olivieri Sow. mss.
— — *Chemn.* ed. II. N. 169. p. 156. t. 21. f. 20—21.
— — *Charp.* in Zeitschr. f. Mal. 1847. p. 144.

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*) T. subgloboso-conica, crassiuscula, rufescente, glauco-tincta; spira mediocri, apice obtuso; anfr. 5 subventricosis, laevibus, tenerrime spiraliter striatis, striis posticis majusculis; sutura subobtecta, antice subcrenulata, linea impressa antica; apertura fere circulari, postice subangulata; peritremate subincrassato; umbilico parvo, angusto. (Sow. l. c.)

**) T. perforata, conoideo-globosa, apice mamillato, cinereo-rubella, eleganter decussata, anfract. 4½ teretibus; apertura subcirculari; peristomate recto, continuo, simplici; operculo terminali, arcte spirato; alt. 6‴; lat. 6‴. (Rossm. l. c.)

***) T. tenui, globoso-conoidea, unicolore, spira acuminatiuscula, apice obtuso, papillari; anfr. 4—5 ventricosis, spiraliter sulcatis, creberrime decussatis; apertura circulari, superne subangulata, peritremate tenui, continuo; umbilico parvo, spiraliter sulcato; operculo pallido, maculo centrali saturatiori, anfractibus oblique striatis. (Sow. l. c.)

Cyclostoma syriacum Ziegl. mss. olim.
— *orientale Rossm.* mss. olim.

Habitat in Banatu Hungariae, prope Mehadia; prope Kasan (Thorey), in vicinia maris Caspii (de Middendorff!); var. β in Syria.

Obs. Nomen *Cycl. sulcati*, a Sowerby Oliviero attributum, in toto ejus opere (Voy. au Levant) haud occurrit.

§. 8.

60. C. sulcatus Draparnaud. 373

T. rimata, ovato-conoidea, lineis elevatis, alternis saepe majoribus, striisque confertissimis subtilibus decussatim sculpta, saturate carnea; spira conica, acutiuscula, apice nitida, glabra, rubra; anfr. 5½ teretes, ultimus superne brevissime solutus, basi fortius sulcatus; apertura subverticalis, basi productiuscula, ovalis, intus fulvo-carnea, nitida; perist. rectum, intus subincrassatum, continuum, superne angulatum, breviter superstructum, margine sinistro subdilatato, plano. — Operc. subimmersum, testaceum, planum, ad peripheriam plicatum, paucispirum, nucleo sublaterali. — Long. 18, diam. 10 mill. Ap. intus 7 mill. longa. (Coll. Nr. 154.)

Cyclostoma sulcatum Drap. Hist. p. 33. t. 13. f. 1. *)
— — *Rossm.* Ic. VI. p. 48. t. 28. f. 394. **)
— — *Terv.* Catal. Alg. p. 33.
— — *Philippi* Sicil. I. p. 144. II. p. 119.
— — *Chemn.* ed. II. N. 63. p. 67. t. 9. f. 24—26.
— *elegans var. c Drap.* Tabl. d. Moll. p. 38.
— — *var. α Hartm.* in Neue Alpina I. p. 215.
— *affinis Risso* Eur. mérid. IV. p. 104.
— *sulcata Desh.* in Lam. hist. VIII p. 370. N. 38. ***)

*) T. ovato-conica, striis distantibus; peristomate patulo, producto, soluto. (Drap. l. c.)

**) T. vix rimata, ovato-conoidea; spira obtusa, lutescenti-carnea, costis distantibus spiraliter sulcata, subtiliter decussata; apertura perpendiculari subrotunda; cervice producta; peristomate continuo, soluto, patulo, incrassato; operculo aliquantum immerso, crasso. Alt. 6—7‴; lat. 4—5‴; anfr. 5. (Rossm. l. c.)

***) T. ovato-conoidea, lutescenti-carnea vel rubescente; costis distantibus spiraliter sulcata; striis longitudinalibus tenuissimis decussata; apertura circulari, recta; labro incrassato, simplici; operculo profunde striato, crasso, in medio depresso. — Long. 18, lat. 13 mill. (Desh. l. c.)

Cyclostoma polysulcatum Pot. et *Mich.* Gal. I. p. 239, t. 24. f. 13, 14? *)
— *siculum Sow.* Thes. N. 40. p. 104. t. 24. f. 51. 52. **)
Cyclostomus sulcatus Gray Catal. Cycloph. p. 46. N. 13.
— — *Pfr.* Consp. N. 331.
Turbo Lincina Chemn. Conch. IX. P. II p. 55. t. 123. f. 1060 b. c.

β. Testa laevigata, striis obsoletis.
Cyclostoma aurantium Ant. Verz. p. 54. N. 1956.
— *coloratum Ziegl.* mss. olim.

γ. Testa fascia rufescente 1 infra peripheriam ornata.
Cyclostoma phaleratum Ziegl. mss. olim.

δ. Testa minore.
Cyclostoma reticulatum Ziegl. mss. olim.

ε. Testa minore, paulo graciliore, sordide violacea, ad suturam et basin albida vel omnino alba.
Cyclostoma Melitense Sow. Thes. N. 41. p. 105. t. 24. f. 53. 54. ***)
— — *Chemn* ed. II. N. 139. p. 133. t. 13. f. 24. 25.
Cyclostomus Melitensis Gray Catal. Cycloph. p. 46. N. 14.

ζ. Testa profundius rimata, alba, regularissime lirata; long. 18, diam. 10 mill.
Cyclostoma multisulcatum Pot. et *Mich.* Gal. I. p. 238. t. 24. f. 11. 12. †)
— — *Chemn.* ed. II. N. 64. p. 69. t. 9. f. 21—23.

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*) Coquille perforée, unicolore, d'un blanc sâle, un peu plus grande, mais à peu près de la même forme que le *C. sulcatum*; toute la surface est fortement sillonnée, les sillons sont obtus et réguliers, et dans les interstices on voit des stries longitudinales très fines qui croisent les sillons; spire composée de six tours, les deux premiers lisses et obtus et le dernier comparativement plus grand que les autres; ouverture presque ronde, mais un peu resserrée dans sa partie supérieure; péristome bordé et comme séparé du second tour auquel il adhère par une petite lame justement placée au dessus de l'angle formé par l'ouverture; sutures profondes, mais arrondies. — Sicile, Italie. (Pot. et Mich. l. c.)

**) T. acuminato-pyramidali, spira aperturam superante, apice obtuso, anfr. 5 ventricosis, laevigatis, spiraliter obsoletiuscule striatis; apertura fere circulari, superne subangulata, disjuncta; peritremate paululum patente; umbilico parvo; operculo spirali, anfractibus rapide majoribus, oblique striatis. (Sow. l. c.)

***) T. subcylindraceo-pyramidali, apice obtuso; spira aperturam fere duplo superante; anfr. 5 ventricosis, spiraliter sulcatis, sulcis alternis obsoletiusculis; apertura fere circulari, superne subangulata, disjuncta; sinistrali peritrematis margine paululum expanso; umbilico minimo; operculo spirali, anfr. rapide majoribus, oblique striatis. (Sow. l. c.)

†) T. ovato-conoidea, albida, transversim sulcata, striis longitudinalibus minimis; rima umbilicali subnulla; anfr. 6 convexis; apertura ovoidea, integra; perist. subreflexo, apice mammillato. Operc. calcareo, albido, paucispirato, ovoideo, striato, a principio nigricante. — Long. 20—22, diam. anfr. ultimi 10—12 mill. — Sicilia. — Minus ventrosa et minor, fortius sulcata quam *C. sulcatum Drap.* (Pot. & Mich. l. c.)

Cyclostoma tenellum Sow. Thes. N. 38. p. 104 t. 24. f. 50. *)

Habitat in Gallia meridionali, Italia, Sardinia, Sicilia, Hispania meridionali, Algeria; var. ε in insula Malta; ζ in Sicilia (Philippi).

61. **C. elegans (Nerita) Müller.** 374

T. subperforata, ovato-conoidea, lineis spiralibus et confertioribus longitudinalibus minute clathrata, violaceo-vel lutescenti-caesia, unicolor vel corneo marmorata et subfasciata; spira conica, obtusiuscula; anfr. 5 convexi, celeriter accrescentes; apertura subverticalis, ovalis, intus fulvescens; perist. simplex, rectum, marginibus angulatim junctis, anfr. penultimum vix tangentibus, columellari subexpanso. — Operc. terminale, testaceum, planum, anfr. 4 oblique striatulis, nucleo ad $^2/_5$ longitudinis posito. — Long. 15, diam. 9 mill. Ap. 7 mill. longa, 6 lata. (Coll. Nr. 155.)

Nerita elegans Müll. Hist. verm. II. p. 177. N. 363. **)
— — *Schroet.* Flussconch. p. 366. t. 9. f. 15.
Turbo Lincina Chemn. Conch. IX. t. 123 f. 1060 d. e.
— *elegans Gmel.* Syst. p. 3606. N. 74.
— — *Montagu* Test. Brit. p. 342. t. 22. f. 7.
— — *Poiret* Prodrome p. 31. N. 2.
— — *Pennant* Brit. Zool. IV. p. 302. t. 85. f. 2.
— — *Dillw.* Descr. catal. II. p. 863. N. 116.
— — *Wood* Index t. 32. f. 118.
— *striatus Da Costa* Brit. Conch. p. 86. t. 5. f. 9.
— *reflexus Olivi* Adriat. p. 170.
Cyclostoma elegans Drap. Tabl. d. Moll. p. 38. N. 1.
— — *Drap.* Hist. p. 32. t. 1. f. 5—8. ***)
— — *var. β Hartm.* in Neue Alpina I. p. 215.
— — *Lam.* Hist. VI. p. 148. N. 26. Ed. *Desh.* p. 360. N. 25. †)

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*) T. subacuminato-pyramidali, spira aperturam superante, apice obtuso; anfr. 4—5 ventricosis, spiraliter striatis, interstitiis striarum tenuissime decussatis; sutura distincta, rotundato-impressa; apertura fere circulari, superne subangulata, disjuncta; peritremate paululum patente; umbilico parvo. (Sow. l. c.)

**) T. ovata, cinerea, spiraliter convexe striata, apertura adnata. — Long. 6, lat. 4 lin. (Müll. l. c.)

***) T. cinerea, ovato-conica, spiraliter convexe striata. (Drap. l. c.)

†) T. ovato-conica, perforata, striis transversis elegantissimis cinxo, albido-cinerea; anfractibus quinis, convexis; adultorum labro margine reflecta. — Long. 7 lin. (Lam. l. c.)

Cyclostoma elegans Brard Hist. coq. terr. p. 103. t. 3. f. 7. 8.
— — *Sturm* Fauna VI. 6. t. 3.
— — *C. Pfr.* Naturg. I. p. 74. t. 4. f. 30. 31. (t. 1. f. 9. Anim.)
— — *Berkeley* in Zool. Journ. IV. p. 278. (Anatome.)
— — *Blainv.* Malacol. t. 34. f. 7.
— — *Turt.* Man. p. 93. f. 75. Ed. *Gray* p. 275. t. 7. f. 75.
— — *Risso* Hist. IV. p. 103.
— — *Rossm.* Ic. I. p. 90. t. 2. f. 44. t. 5. f. 80—82. (Anim.) *)
— — *Desh.* in Encycl. méth. II. p. 40. N. 6.
— — *Bowd.* Elem. of Conch. t. 9. f. 14.
— — *Guérin* Iconogr. règne an. t. 12. f. 12.
— — *Webb* et *Berth.* Syn. moll. Canar. p. 321. N. 1.
— — *Payraudeau* Moll. de Corse p. 105. N. 230.
— — *Philippi* Sicil. I. p. 143. II. p. 119.
— — *Kickx* Syn. moll. Brab. p. 69. N. 87.
— — *Thomps.* Land- and freshw. shells Irel. p. 37.
— — *Dupuy* Moll. du Gers p. 63.
— — *Sow.* Thes. N. 30. p. 101. t. 23. f. 32. 33. **)
— — *Morelet* Moll. du Port. p. 89.
— — *Schmidt* Krain. Conch. p. 20.
— — *Chemn.* ed. II. N. 68. p. 73. t. 9. f. 30—34.
— — *Strobel* Malacol. Trent p. 16.
Cyclostomus elegans Montf. Conch. syst. II. p. 287. t. 72.
— — *Gray* Catal. Cycloph. p. 45. N. 12.
— — *Pfr.* Consp. N. 332.
Fab. Columna de Purp. p. 18. f. 13.
List. Hist. Conch. t. 27. f. 25. (Cochlea terrestris turbinata et striata.)
— Anim. Angl. t. 2. f. 5.
Guall. Ind. test. t. 4. f. A. B.
Argenv. Conchyl. t. 28. f. 12. Zoomorph. t. 9. f. 9.

β. Testa minore, vivide colorata.

Turbo marmoreus Brown in Edinb. journ. of nat. and geog. sc. I. (Conf. Oken Isis 1832.)

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*) T. subperforata, ovato-conoidea, violaceo- vel lutescenti-caesia, obscure minutim variegata, lineis spiralibus et transversis elegantissime clathrata; operculo terminali, solido, paucispiro. Alt. 6—7, lat. 5'''. Anfr. 5. (Rossm. l. c.)

**) T. oblongo-subacuminata, spira obtusa, submamillari; anfr. 4—5, ventricosis, spiraliter sulcatis, creberrime decussatis; sutura distincta, rotundato-subexcavata; apertura subrotundata, superne subangulata; peritremate tenui, continuo; umbilico minimo; operculo pallido, macula subcentrali fusca, anfr. paucis, oblique striatis. (Sow. l. c.)

Cyclostoma marmoreum Sow. Thes. N. 31. p. 101. t. 23. f. 34. 35. *)
— *elegans var. Chemn.* ed. II. p. 75. t. 28. f. 23.
Cyclostomus elegans var. Gray Catal. Cycloph. p. 46.

Habitat in Germania media, Britannia et Hibernia, Illyria, Gallia, Helvetia, Dalmatia, Graecia, nec non in Algeria et insulis Canariis.

62. C. fascicularis Pfr. 375

T. perforata, acuminato-ovata, solidula, confertissime costulato-striata, vix sericea, griseo-cornea; spira conica, acutiuscula; sutura costularum fasciculis crenata; anfr. 5 convexiusculi, ultimus rotundatus, basi spiraliter sulcatus; apertura vix obliqua, ovalis; perist. simplex, rectum, acutum. — Operc. terminale, testaceum, planum, paucispirum, anfractibus oblique striatis. — Long. 12, diam. 8 mill. Ap. 6 mill. longa, 5 lata. (Mus. Cuming.)

Cyclostoma fasciculare Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 307. t. 40. f. 23. 24.
Cyclostomus fascicularis Pfr. Consp. N. 333. p. 64.

Habitat . . .?

Obs. Forma et apertura *C. eleganti* similis.

63. C. laevigatus Webb & Berthelot. 376

T. subperforata, ovato-conica, solidiuscula, spiraliter et confertim sulcata, nitidula, albo et fusco fasciata; spira brevis, conica, apice obtusiuscula; anfr. 4 vix convexi, ultimus ventrosus; sutura fimbriato-crenata; apertura vix obliqua, ovalis, intus concolor, nitida; perist. simplex, rectum, album, marginibus approximatis, callo tenui angulatim junctis, columellari subincrassato, subreflexo. — Operc. (ex Sow.) spirale, anfr. paucis, leviter oblique striatis. — Long. 14, diam. $8^1/_2$ mill. Ap. 8 mill. longa, $6^2/_3$ lata. (Coll. Nr. 156.)

Cyclostoma laevigatum Webb et *Berth.* Syn. moll. Canar. p. 322. **)

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*) T. oblongo-subacuminata, apice obtuso, submamillari; anfr. 4, ventricosis, marmoratis, nitidis; sutura distincta; apertura subrotunda, superne subangulata; peritremate tenui continuo; umbilico minimo. (Sow. l. c.)

**) T. conico-ovata, brevi, tenui, nitida, fasciata, striis longitudinalibus tenuissimis notata. Axis 5'''; diam. 5'''; anfr. $4^1/_2$. — A C. elegante striärum transversarum defectu, anfr. 4, nec 5, quorum ultimo pro partium ratione majore, satis differt. — Prope oppidum St. Crucis Teneriffae. (Webb et Berth. l. c.)

Cyclostoma laevigatum Sow. Thes. N. 49. p. 107. t. 24. f. 62. 63. *)
— — *Chemn.* ed. II. N. 100. p. 102. t. 13. f. 13. 14. 22. 23.
— *Canariense Orb.* Moll. Canar. p. 76. t. 2. f. 30.
Cyclostomus laevigatus Gray Catal. Cycloph. p. 43. N. 5.
— — *Pfr.* Consp. N. 334.

Habitat in insula Teneriffa.

377 64. **C.? saccatus Pfr.**

T. profunde rimata, vix perforata, ovato-oblonga, breviter truncata, tenuis, longitudinaliter confertim filoso-costata, diaphana, pallide cornea, maculis castaneis seriatis ornata; sutura profunda, sub lente spinulosa; anfr. superst. $3^1/_4$ convexi, ultimus antice subascendens, breviter solutus, basi saccatus; apertura subcircularis, basi axin excedens; perist. simplex, continuum, vix expansiusculum. — Operc.? — Long. 12, diam. 8 mill. Ap. 5 mill. longa. (Coll. Nr. 157.)

Cyclostoma saccatum Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed II. N. 352. t. 43. f. 33. 34.
Cyclostomus saccatus Pfr. Consp. N. 336. p. 64.

Habitat . . .?

378 65. **C.? dissectus Sowerby.**

T. perforata, oblonga, apice truncata, nitidula, spiraliter multicostata et longitudinaliter confertissime striata, albida vel carnea; anfr. superst. 4 convexiusculi, ultimus antice solutus, dorso carinatus; apertura subverticalis, ovalis; perist. liberum, continuum, rectum, obtusum, superne angulatum. — Operc.? — Long. 15, diam. $8^2/_3$ mill. Ap. 6 mill. longa. (Mus. Cuming.)

Cyclostoma dissectum Sow. Thes. N. 43. p. 105. t. 24. f. 58. 59. **)
— — *Chemn.* ed II. N. 163. p. 152. t 21. f. 1. 2.
Cyclostomus dissectus Gray Catal. Cycloph. p. 47. N. 16.
— — *Pfr.* Consp. N. 337.

Habitat . . .?

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*) T. subrotundata, albida, fulvo-fasciata, laevi, spira acuminatiuscula; anfr. 4 rotundatis, obsoletissime transversim striatis, marginibus superne decurrentibus, sutura subcrenulata; apertura circulari, superne acuminata; peritremate tenui, minime reflexo; umbilico parvo. (Sow. l. c.)

**) T. oblonga, apice truncato, spira aperturam paululum superante; anfr. 4 rotundatis, spiraliter sulcatis et tenuissime decussatim striatis; apertura fere circulari, superne subangulata; peritremate tenui, continuo, disjuncto, obtuse marginato; sutura distincta, sulciformi; umbilico parvo. (Sow. l. c.)

66. **C.? solidus Menke.** 379

T. subimperforata, subcylindracea, decollata, solida, albida, costis spiralibus, subdistantibus, planulatis, striisque longitudinalibus confertissimis munita; anfr. superst. $4^1/_2$ convexi, lente accrescentes, ultimus antice vix ascendens; apertura verticalis, ovalis; perist. rectum, subincrassatum, superne angulatum et superstructum. — Operc.? — Long. 10, diam. $4^1/_2$ mill. Ap. 4 mill. longa. (Mus. Menke.)

Truncatella solida Menke Synops. ed. II. p. 137. *)
Cyclostoma solidum Chemn. ed. II. N. 119. p. 116. t. 14. f. 4. 5.
Cistula? solida Gray Catal. Cycloph. p. 60. N. 15.
Cyclostomus? solidus Pfr. Consp. N. 338.

Habitat . . .?

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67. **C.? gratus Petit.** 380

T. perforata, oblongo-conica, solida, lineis elevatis spiralibus et longitudinalibus confertissimis subtiliter decussata, nitidula, carnea; spira scalari-conica, apice obtusiusculo purpurea; anfr. 5 convexi, ultimus basi planiusculus, ad peripheriam et circa perforationem subangulatus; apertura obliqua, subcircularis, superne angulata, intus ignea; perist. simplex, continuum, rectum, margine sinistro superne breviter expanso, inferne subreflexo. — Operc.? — Long. 7, diam. 5 mill. Ap. 3 mill. longa, $2^2/_3$ lata. (Mus. Cuming.)

Cyclostoma gratum Petit in Journ. Conch. I. 1850. p. 53. t. 3. f. 10. **)
— — *Chemn.* ed. II. N. 236. t. 34. f. 11. 12.
— *tricolor Pfr.* in Zeitschr. f. Malak. 1849. p. 128. (Mart. 1850.)
Cyclostomus? gratus Pfr. Consp. N. 339.

Habitat in insula Abd-el-Goury prope Socotoram (Guillain).

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*) T. ovato-oblonga, turrita, truncata, imperforata, albida; anfr. 4 transversim striatis, striis longitudinalibus tenuissimis decussatis, convexis, margine superiore crenatis. — Long. $4^1/_2$, lat. $1^3/_4$ lin. (Menke l. c.)

**) T. conica, perforata, pallide rosea; anfr. 5—6 rotundatis, spiraliter tenue sulcatis, transversim subtilissime cancellatis; sutura distincta, apice fuscescente; apertura rotundata, haemastoma; labro simplici; umbilico angulo circumdato. — Diam. 5 mill.; alt. 6 mill. (Petit l. c.)

§. 9.

381 68. **C. Humphreyanus Pfr.**

T. profunde rimata, ovato-conica, saepe decollata, tenuis, laevigata, nitida, albida, fusco taeniata et substrigata; sutura profunda, simplex; anfr. 4—6 convexi, regulariter accrescentes; apertura subcircularis; perist. duplicatum: internum breviter porrectum, flavum, externum horizontaliter late expansum, album vel pallide roseum, ad anfractum penultimum angustatum, margine supero et sinistro dilatato-protractis. — Operc. terminale, testaceum, extus concaviusculum, 5-spiratum, nucleo vix excentrico. — Long. 19, diam. 10 mill. Ap. $6^2/_3$ mill. longa. (Mus. Cuming.)

Cistula picta Humphr. mss.
Cyclostoma pictum Sow. Thes. N. 142. p. 142. t. 28. f. 157. 158. *) Nec Pfr.
— *Humphreysianum Pfr.* in Zeitschr. f. Malak. 1846. p. 41.
— *Humphreyanum Chemn.* ed. II. N. 74. p. 80. t. 10. f. 9—11.
Choanopoma Humphreyanum Gray Catal. Cycloph. p. 53. N. 25.
Cyclostomus Humphreyanus Pfr. Consp. N. 340.

Habitat in insula Jamaica.

382 69. **C. albus Sowerby.**

T. perforata, ovato-conica, apice subtruncata, sublaevigata, alabastrina, nitidula; sutura simplex; anfr. superst. 4 convexi, ultimus 2 praecedentes junctos subaequans; apertura verticalis, oblique ovalis; perist. duplex: internum vix porrectum, externum breviter expansum, marginibus subangulatim junctis. — Operc. vix immersum, simile operculo *C. elegantis*. — Long. 18, diam. $10^1/_2$ mill. Ap. 7 mill. longa, $5^2/_3$ lata. (Coll. Nr. 158.)

Cyclostoma album Sow. Thes. N. 139. p. 141. t. 28. f. 154. **)
— — *Chemn.* ed. II. N. 44. p. 51. t. 6. f. 17—19.
Cyclostomus albus Gray Catal. Cycloph. p 47. N. 17.
— — *Pfr.* Consp. N. 341.

β. Testa minore, tenuiore, fusca, apice nigricante.

Habitat in insula Jamaica.

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*) T. oblongo-conoidea, tenui, subpellucida, spira acuminata, apice decollato; anfr. 4—5 ventricosiusculis, laevibus, albis, fusco marmoratis; sutura profunda; apertura circulari; peritremate interno tenui, levatiusculo, luteo, externo reflexo, dilatato-patente; umbilico parvo. (Sow. l. c.)

**) T. oblonga, alba, spira subconoidali, decollata; anfr. 3—4 rotundatis, laevibus; sutura distincta; apertura elliptica; peritremate duplici, interno tenui, simplici, externo angusto, subreflexo, superne angulato. (Sow. l. c.)

70. **C. Chevalieri Adams.** † 383

T. perforata, ovato-conica, laevigata, nitida, fusca, apice obscurior, juxta suturam et circa umbilicum alba, seriebus macularum saturate brunnearum picta; spira convexiuscula, truncata, amissis plus quam 2 anfractibus; anfr. superst. circa 4 convexi; sutura modice depressa; apertura fere circularis; perist. internum imperfectum, externum album, laevigatum, late expansum (praecipue superne et latere sinistro), ad anfr. penultimum bene appressum. — Operc. simile operculo *C. albi*, subspirale, striis obliquis. — Diverg. media circa 45°; long. 0,68; lat. max. 0,48; lat. min. 0,35 poll. (Ad.)

Cyclostoma Chevalieri Adams Contrib. to Conchol. N. 9. p. 155. *)
Cyclostomus Chevalieri Pfr. Consp. N. 342.

Habitat in insula Jamaica.

§. 10.

71. **C. thysanorhaphe Sowerby.** 384

T. perforata, oblongo-conica, decollata, longitudinaliter confertim plicato-striata, sericina, albida, fusco-castaneo interrupte fasciata et strigata; anfr. superst. 4 convexi, regulariter accrescentes, ultimus basi subproductus; sutura crenis majusculis albis munita; apertura subverticalis, subangulato-rotundata; perist. duplicatum: internum continuum, breviter porrectum, externum campanulato-expansum, album, rufulo-radiatum, ad anfractum penultimum interruptum, superne et ad umbilicum in auriculas sinuosas, inflexas dilatatum. — Operc. *C. Humphreyani.* — Long. 18, diam. 10 mill. Ap. 6½ mill. longa. (Coll. Nr. 159.)

Cyclostoma thysanorhaphe Sow. Thes. N. 145. p. 143. t 28. f. 162 163. **)

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*) Shell ovate conic: brown, darker at the summit, white along the suture, around the umbilicus, and with the peritreme white; also with several spiral series of dark brown dots, of which series two on the upper whorls and three on the last are more conspicuous: smooth and shining: spire rather convex, truncated with the loss of more than two whorls; about four whorls remaining, which are quite convex, with a moderately depressed suture: aperture nearly circular: the inner peritreme slightly developed; outer peritreme smooth and widely expanded, (especially above and on the left side,) well appressed to the penult whorl; umbilicus very small. — The operculum is similar to that of *C. album*, being subspiral with oblique striae. — Var.: *album* wants the dark brown color, and has the spiral dotted lines more or less indistinct. — Var. *virgatum* is dingy or pearl white, with the spiral dotted lines conspicuous. (Adams l. c.)

**) T. oblonga, pyramidali, spira acuminata, plerumque decollata; anfr.

Cyclostoma thysanorhaphe Chemn. ed. II. N. 75. p. 81. t. 10. f. 16—18.
Choanopoma thysanoraphe Gray Catal. Cycloph. p. 53. N. 26.
Cyclostomus thysanorhaphe Pfr. Consp. N. 343.

Habitat in insula Jamaica.

385 **72. C. Redfieldianus Adams.**

T. perforata, ovato-conica, tenuis, longitudinaliter confertissime plicata, sericina, albida, fusco seriatim maculata, vel violaceo-fusca, punctis saturatioribus seriatis picta; spira conica, breviter truncata, superne nigricans, distinctius costata; sutura profunda, nodulis albis irregulariter distantibus crenata; anfr. superst. $3^1/_2$ convexi, celeriter accrescentes, ultimus rotundatus; apertura verticalis, subcircularis; perist. duplex: internum breviter porrectum, externum angulatim patens, ad anfr. penultimum excisum, superne in corniculum cavum, latere columellari in alam latiusculam, crenulatam dilatatum. — Operc. praecedentis. — Long. 17, diam. 10 mill. Ap. 7 mill. longa. (Coll. Nr. 160. Spec. authent.)

Cyclostoma Redfieldianum Adams Contrib. to Conch. N. 1. p. 10. *)
— — *Chemn.* ed. II. N. 263. t. 37. f. 7. 8.
Cyclostomus Redfieldianus Pfr. Consp. N. 344.

β. Spira vix truncata, anfr. 6, ultimo acute costato-striato, perist. interno expanso, adnato; long 17, diam. 9 mill. (Mus. Cuming.)

Habitat in insula Jamaica.

Obs. An varietas praecedentis?

3—6 rotundatis, transversim striatis, fusco interruptim fasciatis, marginibus superioribus plicato-fimbriatis; *(sutura crenulata;)* apertura circulari, peritremate interno crassiusculo levatiusculo, externo dilatato-patente; umbilico parvo; operculo extus anfr. 5—6 oblique striatis. — Demerara et Antill. (Sow. l. c.)

*) Shell ovate-conic; pale bluish gray or dingy white, with a few spiral interrupted lines of dark brown; strongly striated transversely, without spiral striae; spire with rather convex outlines; apex truncate with the loss of two whorls; three and one-half quite convex whorls remaining, with a deep suture, which has a few strong unequal, inequidistant crenulations; aperture large, nearly orbicular; inner peritreme a little produced and reflected; outer peritreme wanting on the upper part of the left side, much expanded on the remaining part of this side, moderately spread on the outer side, concave, sharp-edged, above often inflected so as to form a cell; umbilicus small. Mean divergence 55°; length 0,66, greatest breadth 0,5; least breadth 0,4 inch. (Adams l. c.)

73. C. Jayanus Adams. 386

T. profunde rimata, ovato-conica, solidiuscula, longitudinaliter confertim plicata, parum nitida, albida, strigis latis, obliquis, angulosis vel fasciis interruptis fuscis ornata; spira elato-conica, vix truncatula vel integra; sutura superne minute denticulata, anfractuum inferiorum subsimplex; anfr. $4^1/_2$ — 6 convexi, ultimus rotundatus, basi ultra axin subproductus; apertura vix obliqua, subcircularis, intus nitida, fulvida, nebulosa; perist. duplex, lateritium, album vel fuscum: internum continuum, late expansum, appressum, externum latius, horizontaliter patens, superne sinuato-angulatum, ad anfr. penultimum breviter interruptum. — Operc. praecedentium. — Long. 20, diam. 11 mill. Ap. intus 7 mill. longa. (Coll. Nr. 161.)

Cyclostoma solidum Adams Contrib. to Conch. N. 1. p. 7. *) Nec Menke.
— *Jayanum Adams* Ibid. N. 4. p. 50.
— — *Chemn.* ed. II. N. 310. t. 40. f. 32. 33.
— *histrio Pfr.* in Proc. Zool. Soc. 1851. Jul.
Cyclostomus Jayanus Pfr. Consp. N. 345.

Habitat in insula Jamaica.

74. C. Banksianus Sowerby. 387

T. breviter rimato-perforata, ovato-conica, tenuiuscula, longitudinaliter confertissime plicatula (plicis interdum undulatis, nonnullis subregulariter distantibus validioribus), pallide fuscescens, aurantio-strigata, vel nigro-coerulea, lineis interruptis rufis obsolete cincta; spira conica, truncatula; sutura crenulata; anfr. superst. $3^1/_2$ convexi, ultimus rotundatus, antice fusco-aurantiacus, circa umbilicum angustissimum spiraliter sulcatus; apertura verticalis, circularis, intus sanguinea; perist. sanguineum, duplicatum: internum expansiusculum, externum breviter expansum, ad anfr. penultimum breviter excisum,

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*) Shell long, ovate-conic; whitish or brownish, with several narrow more or less interrupted sometimes nearly obsolete spiral brown lines, often with large irregular zigzag oblique spots of dark brown; with very closely set strong rounded transverse raised lines, which are a little larger in twos and threes at the summit like a minute crenulation; spire with moderately convex outlines; apex truncate with the loss of two whorls; four and one-half whorls remaining, quite convex, with a well impressed suture; aperture nearly circular; inner peritreme slightly produced and reflected; outer peritreme broad, white or pale yellow, a little concave, widest above and on the left side at the bottom of which it is subangular; umbilicus very small. Mean divergence 50°; length 0,78; greatest breadth 0,55, least breadth 0,4 inch. (Adams l. c.)

superne subauriculatum. — Operc. exacte *C. costulati Ziegl.*, medio concaviusculum. — Long. 15, diam. 9½ mill. Ap. intus 6 mill. longa. (Coll. Nr. 162.)

Cyclostoma Banksianum Sow. Thes. N. 148. p. 144. t. 29. f. 194.*)
— — *Chemn.* ed. II. N. 165. p. 154. t. 21. f. 7. 8. t. 44. f. 17. 18.
— *hyacinthinum Adams* Contrib. to Conch. N. 1. p. 9. **)
Choanopoma Banksianum Gray Catal. Cycloph. p. 52. N. 19.
Cyclostomus Banksianus Pfr. Consp. N. 346.

Habitat in insula Jamaica, Manchester Mountains.

388 75. **C. Yallahensis Adams.** †

„Testa *C. Banksiano* similis, sed minor et gracilior; color coeruleo-brunneus, aetate vel expositione non mutans in aurantiacum prope aperturam; striae rudiores sunt, impressiones *(indentations)* obliquae saepe obsoletae. Operculum simile operculo *C. hyacinthini.* — Diverg. media circa 46°; long. 0,48; lat. max. 0,32; lat. min. 0,27 poll. (Ad.)

Cyclostoma Yallahense Adams Contrib. to Conch. N. 9. p. 156. ***)
Cyclostomus Banksianus var.? Pfr. Consp. p. 37.

Habitat in parte orientali insulae Jamaicae, prope „Yallah's Hill."

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*) T. ovato-pyramidali, tenuiuscula, pallescente, aurantiaco-brunnea pallide strigata, apice decollato; anfr. 3 – 4 rotundatis, tenerrime transversim striatis, striis paululum undulatis; sutura distincta, crenulata; apertura magna, circulari, aurantiaco-brunnea; peritremate duplici, interno tenui, paululum levato, externo angusto, reflexo, prope ultimum anfractum discontinuo; umbilico mediocri, spiraliter striato. (Sow. l. c.)

**) Shell ovate conic; deep greyish blue, often in the progress of growth becoming pale brown and then orange, always deep orange at the lip; with rather strong but not very prominent often whitish transverse raised lines, which are mostly in groups of three or four, and are transversed by numerous spiral series of short rectangular obliquely situated indentations, which are of a dark brown in brownish parts of the shell, — with very unequal and inequidistant small crenulations in the suture; spire with rather convex outlines; apex truncate with the loss of two whorls; four quite convex whorls remaining, with a deep suture; aperture orbicular, slightly angulated above; inner peritreme slightly produced; outer peritreme narrow, concave, deeply striated, sharp-edged, wanting at the contact with the penultimate whorl, auriculate above; umbilicus extending through. Mean divergence 58°; length 0,58; greatest breadth 0,45; least breadth 0,35 inch. (Adams l. c.)

***) Although this shell so much resembles the species with which we have compared it, a peculiar type is easily recognized in it. The two

76. C. tectilabris Adams. 389

T. vix subperforata, ovato-conica, tenuiuscula, longitudinaliter subacute et confertim lamelloso-costata, fulvida, saepe violaceo-nebulosa, seriebus multis punctorum ruforum ornata; spira ovata, breviter truncata; sutura albo-crenata; anfr. superst. 4 convexi, ultimus rotundatus, antice subsolutus; apertura subverticalis, ovali-rotundata; perist. duplex: internum continuum, expansiusculum, externum breviter patens, supra perforationem subdilatatum. — Operculum testaceum, planum, album, 5-spirum, apertura latius, peristoma includens. — Long. 13, diam. 8 mill. Ap. $5^1/_2$ mill. longa. (Coll. Nr. 163.)

Cyclostoma tectilabre Adams Contrib. to Conch. N. 1. p. 10.
— — *Chemn.* ed. II. Cycl. N. 354. t. 44. f. 25—27.
Cyclostomus tectilabris Pfr. Consp. N. 335.

Habitat in insula Jamaica.

77. C. Bronni Adams. 390

T. rimato-subperforata, ovato-turrita, truncata, solidiuscula, confertissime costulato-striata, sericina, pallide fusca, punctis rufis seriatis aliquando obsolete notata; sutura regulariter crenata; anfr. superst. 3—$3^1/_2$ convexi, rapide accrescentes, ultimus basi concentrice multisulcatus; apertura verticalis, subcircularis; perist. duplex: internum continuum, externum breviter expansum, margine dextro prope anfr. penultimum in appendicem brevem, linguaeformem dilatato. — Operc. fere *C. elegantis*, margine sulcatum. — Long. 16, diam. 10 mill. Ap. intus $6^1/_2$ mill. longa, $5^2/_3$ lata. (Coll. Nr. 164.)

Cyclostoma Bronnii Adams in Proc. Bost. Soc. 1845. p. 11. *)
— — *Pfr.* in Zeitschr. f. Mal. 1846. p. 46.
— — *Chemn.* ed. II. N. 43. p. 50. t. 6. f. 24—26.
— *papillare Féruss.* Mus.
Cyclostomus Bronni Gray Catal. Cycloph. p. 47. N. 18.
— — *Pfr.* Consp. N. 347.

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types are geographically remote; this species inhabiting the east end of the island from Yallah's Hill eastward, while the other occurs in the middle of the south side (Manchester) and westward. Neither species has been found in the intermediate regions. (Adams l. c.)

*) T. fusca, interdum subalbida, decollata; anfr. $2^1/_2$ perditis; anfr. reliquis 4, supra exile crenulatis, striis longitudinalibus exilissimis parallelis creberrimis — eleganter insculptis; labro crassiusculo, supra in triangulum parvum concavum producto; operculo albo, subduplici. Div. 58°; alt. 0,67; lat. max. 0,5; lat. min. 0,35 poll. (Adams l. c.)

β Fasciis angustis fuscis interruptis.

Cyclostoma fusco-lineatum Adams Proc. Bost Soc. 1845. p. 11. *)

— *Bronnii var. Adams* Contrib. to Conch. N. 9. p. 180.

Habitat in insula Jamaica.

391 78. **C. lamellosus Adams.**

T. ovato-conica, subabbreviata, lamellis longitudinalibus confertis, acute elevatis, ad suturam prominentioribus munita, irregulariter et interrupte brunneo-lineata; apex truncatus, amissis 2—3 anfractibus; spira curvilinearis; anfr. superst. $3^1/_2$ convexi, ultimus basi spiraliter subsulcatus; apertura orbicularis; perist. duplex: internum validum, productum, reflexiusculum, externum angustum, fere in planum aperturae réflexum, superne auriculatum. — Operc. $4^1/_2$-spiratum, lamella spirali vix elevata, lateraliter valde producta. — Long. (trunc.) 0,49; lat. max. 0,4; lat. min. 0,34 poll. (Ad.)

Cyclostoma lamellosum Adams in Ann. Lyc. New-York V. N. 2. p. 54 et Contrib. to Conch. N. 8. p. 138. **)

Cyclostomus lamellosus Pfr. Consp. N. 348.

Habitat in insula Jamaica.

392 79. **C. rugulosus Pfr.**

T. subperforata, cylindraceo-turrita, decollata, tenuis, costis longitudinalibus confertis rugulosa, diaphana, cinerascenti-albida; anfr. superst. 4 convexi, lente accrescentes, ad suturam canaliculatam denticulati, ultimus subdisjunctus, pone aperturam callo lato, antice dentiformi cum penultimo junctus, basi obsolete spiraliter sulcatus; apertura verticalis, oblique

*) T. *C. Bronnii* affini, fasciis angustis fuscis interruptis ornata, sutura haud multum crenulata, labro minore. Forsan var.? Alt. 0,55, lat. max. 0,4, lat. min. 0,3 poll. (Adams l. c.)

**) Shell ovate conic, rather short: with several inequidistant unequal more or less interrupted spiral lines of brown, of which four or five appear on the penult whorl: with rather closely set sharp elevated transverse lamellae, which are more prominent at the sutures, without spiral striae except a few ridges in the umbilicus: apex truncate with the loss of two or three whorls: spire with the outlines quite convex: about three and one-half whorls remaining, very convex, with a rather deep suture: aperture orbicular, with two peritremes, of which the outer one is narrow, auriculate above, reflected nearly into the plane of the aperture; the inner peritreme is rather stout, well produced, a little reflected. The operculum has a spiral lamella, which has about four and one-half whorls, and is but little elevated and much produced laterally. Mean divergence about 50°. — This shell much resembles *C. tectilabre*, but the outer peritreme is more expanded, and the margin of the operculum is not reflected backwards.

ovalis; perist. duplicatum: internum rectum, externum undique subaequaliter patens. — Operc. terminale, testaceum, nucleo parum excentrico, anfr. 4 oblique confertim sulcatis, margine subelevato. — Long. 10—11, diam. $4^{1}/_{2}$—5 mill. Ap. 3 - $3^{1}/_{2}$ mill. longa, $2^{1}/_{2}$—$2^{3}/_{4}$ lata. (Coll. Nr. 165.)

Cyclostoma rugulosum Pfr. in Wiegm. Arch. f. Nat. 1839. I. p. 356.
— — *Chemn.* ed. II. N. 120. p. 117. t. 14. f. 9—11. t. 38. f. 11. 12.
— *clathratum Gould* in Bost. Journ. IV. 1. 1842. (In involucro.)
— *verecundum Poey* Memorias I?
Cistula rugulosa Gray Catal. Cycloph. p. 59. N. 10.
Cyclostomus rugulosus Pfr. Consp. N. 349.

Habitat in insula Cuba.

80. **C. Wilkinsoni Adams.** 393

T. subperforata, cylindraceo-turrita, truncata, tenuis, longitudinaliter confertim costata, diaphana, albida, rufo seriatim et obsolete maculata; sutura lamelloso-dentata; anfr. superst. 4 convexi, lente accrescentes, ultimus disjunctus, descendens, dorso carinatus, latere columellae spiraliter sulcatus; apertura axi subparallela, ovalis; perist. duplex: internum vix porrectum, externum undique breviter reflexum. — Operc. fere *C. rugulosi.* — Long. 8, diam. $3^{1}/_{2}$ mill. Ap. 2 mill. longa. (Coll. Nr. 166.)

Cyclostoma Wilkinsonii Adams Contrib. to Conch. N. 1. p. 6. *)
— — *Chemn.* ed. II. N. 376. t. 46. f. 17—19.
— *Vilkinsoni Adams* Catal. Apr. 1851.
Cyclostomus Wilkinsoni Pfr. Consp. N. 350.

β. Testa minore, unicolore, anfract. $3^{1}/_{2}$, ultimo minus disjuncto; long. 6, diam. 3 mill. (Mus. Cuming.)

Cyclostoma modestum Adams Contrib. to Conch. N 1. p. 6. **)

Habitat in insula Jamaica.

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*) Shell small, subcylindrical; whitish, with a few small distant pale brown spots in a spiral series; with not very closely set sharp transverse raised lines; spire with sligthly convex outlines; apex truncate with the loss of three whorls, of which *the second and third are* seen in the young shell to be *entirely and widely detached;* four whorls remaining, very convex, with a very deep suture; last whorl widely detached from penult whorl near the aperture, acutely angular above; aperture suborbicular, quite angular above; inner peritreme moderately produced; outer peritreme rather small, concentrically striated, reflected a little back of the plane of the aperture, above produced into an angle, with two or three small brown spots; umbilicus very small, but extending through and spreading near the apex. Mean divergence about 17°; length 0,35; greatest breadth 0,16; least breadth 0,12 inch. (Adams l. c.)

**) Shell small, elongate; whitish; with thin raised laminae, which are

§. 11.

394 81. **C. Rangelinus Poey.**

T. perforata, conico-turrita, breviter truncata, tenuiuscula, lineis elevatis spiralibus et confertioribus longitudinalibus (in anfr. ultimo obsoletioribus) sculpta, diaphana, lutescenti-cornea, lineis castaneis spiralibus permultis, hinc inde in fascias conjunctis picta, interdum omnino lutescens vel vinosa; sutura crenis validis albis fasciculatis munita; anfr. superst. 5 convexi, ultimus rotundatus; apertura subverticalis, ovali-rotunda; perist. duplex: internum continuum, breviter porrectum, expansiusculum, externum breviter patens, superne subauriculatum, infra anfr. penultimum excisum. — Operc. *C. costulati Z.* — Long. 22½, diam. 12 mill. Ap. fere 8 mill. longa, 6½ lata. (Coll. Nr. 167.)

Cyclostoma Rangelinum Poey Memorias hist. nat. Cuba I. t. 8. f. 13—19.
— — *Chemn.* ed. II. N. 388. t. 47. f. 17—19.
Cyclostomus Rangelinus Pfr. Consp. N. 350 a.

Habitat in insula Cuba (Poey).

395 82. **C. retrorsus Adams.**

T. subperforata, ovato-oblonga, tenuis, truncata, lineis spiralibus et costis longitudinalibus confertis arcte clathrata, asperata, non nitens, pallide cornea, rufo irregulariter punctata et strigata; sutura subcanaliculata, denticulata; anfr. superst. 4 ventrosi, ultimus non solutus, teres, circa perforationem liris 4—5 fortioribus munitus; apertura verticalis, circularis; perist. multiplex, concentrice striatum, album, fornicatim late retroflexum, canalem posteriorem formans, ad anfractum penultimum excisum, superne angulatum. — Operc. terminale, testaceum, planum, canaliculato-spiratum, nucleo vix excentrico. — Long. 16—17, diam. 9 mill. Ap. 5, c. perist. 8 mill. longa. (Coll. Nr. 168.)

Cyclostoma retrorsum Adams Contrib. to Conch. N. 6. p. 91. *)

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more distant on the upper whorls; spire with moderately convex outlines; apex truncate with the loss of two or three whorls; about three and one-half whorls remaining, quite convex, with a rather deep suture; last whorl a little detached from the preceding near the aperture; aperture like that of *C. Wilkinsonii*, but smaller, with the outer peritreme a little wider proportionally and without spots; umbilicus very narrow, but extending through. Mean divergence about 25°; length 0,26; greatest breadth 0,15; least breadth 0,11 inch. (Adams l. c.)

*) Shell subovate: horn colour, with small irregular flames of brown,

Cyclostoma retrorsum Chemn. ed. II. N. 258. t. 36. f. 15. 16.
Cyclostomus retrorsus Pfr. Consp. N. 351.

Habitat in insula Jamaica.

Obs. Haec testa operculo suo aliquantum ad *Choanopomata* accedit, forma, sculptura et peristomate *Jamaiciae Moussonianae* persimilis.

83 **C. salebrosus Morelet.** 396

T. rimato-subperforata, ovato-turrita, truncata, solidula, costis longitudinalibus confertis, sublamellosis, lineisque spiralibus scabriuscula, haud nitens, albido-cinerascens; sutura irregulariter serrulata; anfr. superst. 3—3½ convexi, ultimus rotundatus, antice descendens, solutus, dorso carinatus; apertura fere verticalis, subcircularis; perist. duplicatum: internum prominens, expansiusculum, externum superne angulatim productum, latere dextro vix reflexum; columellari dilatatum, patens. — Operc. testaceum, extus medio convexiusculum, margine profunde sulcatum, anfr. 4, in lamina exteriore oblique profunde sulcatis, nucleo fere centrali. — Long. 16, diam. 10 mill. Ap. oblique 6 mill. longa. (Coll. Nr. 169.)

Cyclostoma salebrosum Morelet Test. noviss. p. 23. N. 59. *)
— — *Chemn.* ed. II. N. 260. t. 36. f. 19—21.
Cyclostomus salebrosus Pfr. Consp. N. 352.

Habitat ad montem Guajaibon insulae Cubae.

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and a few small dots of the same, which are inequidistant in spiral series: with numerous fine spiral ridges (of which one or two next the suture are larger), which are decussated by numerous inequidistant moderately elevated lamellae, which are produced at the intersections into triangular points thickened at their bases: spire well lengthened, with the outlines quite curvilinear: apex truncate, with the loss of — whorls; remaining whorls nearly four, very convex, with a deep suture; last whorl not separated from the penult whorl; aperture orbicular: inner peritreme scarcely distinct from the outer, which is thick and wide, finely radiated with impressed lines, and reflected very far behind the plane of the aperture, so as to form a canal behind it: umbilicus very small, but extending through the truncate apex. Operculum with the spiral lamella dilated and reflected so as to leave only a very narrow channel between its whorls. Mean divergence about 50°; length 0,615; greatest breadth 0,5; least breadth 0,33 inch. (Adams l. c.)

*) T. oblongo-subventricosa, truncata, solida, scabriuscula, albido-cinerascens, confertissime et argute decussata; anfr. 4 convexi, ultimo ventricoso, disjuncto, sursum obtuse carinato. Apertura rotundata; perist. integrum, duplex; internum nitidum, crassiusculum, rectum; externo vix distincto, ad carinam angulatim reflexiusculo; latere columellari breviter dilatato. — Long. 16, diam. 10 mill. (Mor. l. c.)

397 84. **C.? sulculosus Férussac.**

T. vix rimata, oblonga, solida, liris elevatis spiralibus, lineisque confertissimis longitudinalibus, liras transgredientibus (quarta vel quinta quavis validiore) sculptà, non nitens, fulvo-carnea; spira sensim attenuata, truncata; sutura subcanaliculata, irregulariter et remote calloso-crenata; anfr. superst. 4 convexiusculi, ultimus antice subsolutus; apertura verticalis, ovalis, intus fuscula; perist. albidum, duplex: internum expansiusculum, appressum, externum breviter patens, superne in rostrum triangulare elevatum, ad anfr. penultimum angustissimum, latere sinistro dilatatum. — Operc.? — Long. 14, diam. 7 mill. Ap. $4^1/_2$ mill. longa, 4 lata. (Mus. Cuming.)

Cyclostoma sulculosum Féruss. Mus.
— — *Chemn.* ed. II. N. 318. t. 41. f. 15. 17.
Cyclostomus sulculosus Pfr. Consp. N. 353.
β. Testa minore, pallida, sutura profundiore.
Cyclostoma suturale Féruss. Mus.
— *sulculosum var. Chemn.* l. c. t. 41. f. 22. 23

Habitat in insula Guadeloupe.

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398 85. **C. Dominicensis Pfr.**

T. non perforata, oblonga, truncata, solidiuscula, lineis elevatis spiralibus et confertioribus longitudinalibus arcte reticulata, vix nitidula, pallide fulvescens; sutura regulariter dentata; anfr. superst. 4 convexiusculi, ultimus antice breviter solutus, dorso carinatus; apertura verticalis, oblique angulato-ovalis; perist. duplex: internum breviter porrectum, externum album, breviter expansum, angulo supero et basi dilatatum. — Operc. testaceum, 4-spirum, margine anfractuum libero, nucleo parum excentrico. — Long. 10, diam. $4^2/_3$ mill. Ap. intus 3 mill. longa, $2^1/_3$ lata. (Coll. Nr. 170.)

Cyclostoma Dominicense Pfr. in Zeitschr. f. Malak. 1850. p. 79.
— — *Chemn.* ed. II. N. 277. t. 38. f. 9. 10.
Cyclostomus Dominicensis Pfr. Consp. N. 354.

Habitat in insula Haiti (Sallé).

Obs. Species operculo ad *Choanopoma* accedens.

XXII. Tudora Gray.

Operculum ovale, testaceum, planum, anfractibus 2—3, rapide crescentibus, oblique arcuato-striatis vel sulcatis, nucleo valde excentrico, margini sinistro et infero peristomatis approximato. Testa ovato-oblonga vel turrita; apertura angulato-ovalis; peristoma expansum, simplex vel duplicatum.

Tudora Gray in Catal. Cycloph. Brit. Mus. p. 48.
— *Pfr.* in Zeitschr. f. Mal. 1851. p. 166; Consp. p. 38. (emend.)
Cistulae spec. *Gray* l. c. p. 57.
Cyclostoma (spec.) *Auctorum.*

Conspectus specierum.

A. Peristomate	simplice	§. 1.	Nr.	1—11.
B. —	subduplicato . . .	§. 2.	—	12—14.
C. —	duplice	§. 3.	—	15—25.

§. 1.

1. **T. megachila Potiez & Michaud.** 399

T. perforata, ovato-conica, apice decollata, concentrice subremote costata, lineis elevatis longitudinalibus cancellata, fusco, rubello et aurantiaco variegata; anfr. superst. 5 convexi, ultimus antice subascendens; apertura fere verticalis, basi axin subexcedens, ovalis, intus crocea; perist. simplex, album, subcontinuum, superne angulato-dilatatum, margine dextro expanso, sinistro perdilatato, patente, perforationem angustam magis minusve tegente. — Operc. immersum, arcuato-striatum. — Long. 18, diam. 9 mill. Ap. c. perist. 9 mill. longa, 7½ lata. (Coll. Nr. 171.)

Cyclostoma megacheilos Pot. et *Mich.* Gal. Douai I. p. 237. t. 24. f. 9. 10. *)
— *simile Gray* mss. in Mus. Brit.
— — *Sow.* Thes. N. 37. p. 103. t. 24. f. 48. 49. **)

*) T. ovato-conica, perforata, solida, transversim sulcata, longitudinaliter striata, striis confertis, sulcis distantibus; anfr. sub-6 valde convexis, superne subcarinatis; apertura subrotundata, superne paululum angulata, intus rufa; perist. acuto, patulo, albo, subreflexo; apice truncato; operculo concentrice striato, anfr. sub-4. — Long. 15—18 mill. Diam. bas. (inclusa apert.) 10—12 mill. — Habitat? (Pot. et Mich. l. c.)

**) T. subacuminato-pyramidali, apice decollato, albicante, interdum

Cyclostoma megachilum Chemn. ed. II. N. 62. p. 66. t. 9. f. 18, 19.
— *roridum Parr.* in sched.
— *Proteus Beck* in Mus. Cuming.
Tudora similis Gray Catal. Cycloph. p. 48. N. 1.
— *megachila Pfr.* Consp. N. 355.
β. Testa majore, fauce albida:
Cyclostoma cancellatum Menke in litt. olim.
— *megachilum var. Chemn.* l. c. t. 9. f. 15—17.
γ. Liris spiralibus remotis, linearibus.
δ. Liris spiralibus omnino deficientibus

Habitat in insula Curaçao.

400 **2. T. costata Menke.**

T. subperforata, oblongo-turrita, apice truncata, longitudinaliter valide plicato-costata, lineis elevatis obsoletissime decussata, carnea, superne coerulescens; anfr. superst. 6 convexi, ultimus antice ascendens, basi spiraliter et confertim profunde sulcatus; apertura ovalis, basi protracta, intus aurantiaca; perist. simplex, expansiusculum, album, margine supero dilatato, fornicato, columellari superne angusto, appresso, perforationem subtegente, basi dilatato, subauriculato. — Operc.? — Long. 16, diam. $7^{2}/_{3}$ mill. Ap. c. perist. oblique 8 mill. longa. (Mus. Menke.)

Cyclostoma costatum Menke in litt.
— — *Pfr.* in Zeitschr. f. Mal. 1846. p. 47.
— — *Chemn.* ed. II. N. 59. p. 64. t. 9. f. 9. 10.
Cistula? costata Gray Catal. Cycloph. p. 58. N. 4.
Tudora costata Pfr. Consp. N. 356.

Habitat . . .?

401 **3. T. versicolor Pfr.**

T. anguste rimata, oblongo-turrita, apice truncata, nitida, pallide rosea, lineis aurantiacis cingulata; anfr. superst. 5 convexiusculi, supremi confertim costulati, medii laevigati, ultimus $^{2}/_{5}$ longitudinis subaequans, basi concentrice sulcatus; apertura verticalis, ovato-circularis, intus crocea; perist. simplex, album, margine dextro fere recto, columellari breviter reflexo. —

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fusco lineata; anfr. 4 ventricosis, plerumque decussatis, nonnunquam laevigatis, striis spiralibus eminentioribus; sutura distincta; apertura subovali, fauce crocea; peritremate patente, albicante; umbilico minimo. (Sow. l. c.)

Operc.? — Long. $17^1/_2$, diam. $8^1/_2$ mill. Ap. 7 mill. longa, 5 lata. (Coll. Nr. 172.)

Turbo aurantius Wood Index Suppl. t. 6. f. 23.
Cyclostoma aurantium Gray in Wood Suppl. p. 36.
— *aurantiacum Sow.* Thes. N. 36. p. 103. t. 24. f. 46. 47. *)
— *versicolor Pfr.* in Zeitschr. f. Mal. 1846. p. 33.
— — *Chemn.* ed. II. N. 60. p. 65. t. 9. f. 13. 14.
Cistula versicolor Gray Catal. Cycloph. p. 58. N. 3.
Tudora versicolor Pfr. Consp. N. 357.

β. Testa solidiore, undique obsolete et confertim decussata, rosea, coccineo variegata. (Menke Mus.)

Cyclostoma carneum Menke in Chemn. ed. II. N. 61. p. 65. t. 9. f. 11. 12.

Habitat . . .?

Obs. Haec species et praecedens *T. megachilae* proxime affines apparent

4. T. ferruginea Lamarck. 402

T. subrimata, oblongo-turrita, tenuiuscula, spiraliter et inaequaliter confertim filocincta, interstitiis subdecussata, lutescens, ochraceo vel fusco strigata; spira turrita, vertice laevigato, obtuso; sutura leviter canaliculata; anfr. $5^1/_2$ — 6 convexi, ultimus $^1/_3$ longitudinis vix superans; apertura verticalis, rotundato-ovalis, intus fulvida; perist. continuum, simplex, vix expansiusculum, marginibus angulo obsolete junctis. — Operc. angulato-ovale, testaceum, cinereum, anfr. 3, extus ruditer striatis. — Long. $18^1/_2$, diam. $8^1/_3$ mill. Ap. 7 mill. longa, $5^1/_3$ lata. (Coll. Nr. 173.)

Cyclostoma ferruginea Lam. Hist. VI. p. 147. N. 17. Ed. Desh. VIII. p. 358. N. 16. **)
— — *Deless.* Recueil t. 29. f. 4.
— *ferrugineum Mich.* Cat. test. d'Alg. p. 11. t. 1. f. 23. ***)

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*) T. acuminato-pyramidali, apice decollato, pallide fulva aurantiaco vel fusco-variegata; anfr 5 ventricosis, laevigatis, nonnunquam decussatis, striis spiralibus eminentioribus; sutura distincta; apertura subovali, superne acuminatiuscula, intus aurantiaca; peritremate patente, albicante; umbilico minimo. (Sow. l. c.)

**) T. ventricoso-conica, apice obtusa, striis transversis prominulis cincta, albido-lutescente, ferrugineo nebulosa; anfr. 6 convexis; suturis excavatis; labro subreflexo. — Long. 8 lin. (Lam. l. c.)

***) T. ovato-conica, subperforata, brunnea, maculis longitudinalibus irregulariter picta, transversim sulcata; anfr. 6 convexis; apertura rotunda, superne angulata; perist. simplici, acuto; apice obtuso, laevi, fulvo. Operc.

Cyclostoma ferrugineum Rossm. Ic. VI. p. 49. t. 28. f. 396. *)
— — *Pot.* et *Mich.* Gal. Douai I. p. 236. t. 24. f. 7. 8.
— — *Sow.* Conch. Man. f. 303.
— — *Sow.* Thes. N. 42. p. 105. t. 24. f. 55—57. **)
— — *Graells* Cat. Mol. terr. Esp. p. 8.
— — *Chemn.* ed. II. N. 65. p. 70. t. 9. f. 27—29.
— *bistriatus Brown* 1827. Illustr. Conch. Gr. Br. and Irel. t. 41 f. 29. 30.
— *productum Turt.* Man p. 94. f. 76. Ed. Gray t. 7. f. 76.
— *fulvum Gray* in Wood suppl. p. 36.
Turbo fulvus Wood Index suppl t. 6. f. 9.
Cyclostomus ferrugineus Gray Catal. Cycloph. p. 47. N. 15.
Tudora ferruginea Pfr. Consp. N. 358.

Habitat in Hispania meridionali, insulis Balearicis et Algeria.

403 **5. T. fecunda Adams.**

T. subperforata, oblongo-conica, tenuiuscula, longitudinaliter confertissime plicato-striata, non nitens, fulvido-albida, lineis interruptis rufis et interdum basi fascia latiore castanea ornata; spira elongata, breviter truncata; anfr. superst. 5—6 vix convexi, regulariter accrescentes; apertura subobliqua, angulato-ovalis, superne sinuosa; perist. simplex, breviter expansum, superne in auriculam productum, latere dextro subcompresso, strictiusculo. — Operc. testaceum, cinereo-albidum, oblique confertim sulcatum. — Long. 18, diam. $8^1/_2$ mill. Ap. c. perist. 8 mill. longa, medio $5^1/_3$ lata. (Coll. Nr. 174.)

Cyclostoma fecundum Adams Contrib. to Conch. N. 1. p. 11.
— — *Chemn.* ed. II. N. 377. t. 46. f. 20. 21.
Tudora fecunda Pfr. Consp. N. 359.

β. Testa minore, fasciis distinctioribus angustis rufis cincta.
Cyclostoma fecundum var. Chemn. l. c. t. 46. f. 22. 23.

Habitat in insula Jamaica.

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subplano, fusco, spiraliter striato; anfr. binis, ultimo maximo. — Long. 7—8, diam. 4 lin. (Mich. l. c.)

*) T. imperforata, ovato-turrita, obtusata, spiraliter costulata, lutescenti-albida, transverse fusco-variegata; anfr. 6 convexis, suturis leviter excavatis; apertura ovato-rotunda; perist. continuo, simplici, patulo; operculo parum immerso, paucispiro. Alt. 8—10, lat. 4'''. (Rossm. l. c.)

**) T. oblongo-pyramidali, apice obtuso, spira aperturam duplo superante; anfr. 5—6 rotundatis, spiraliter sulcatis; apertura fere circulari, superne subangulata; peritremate tenui, acutiusculo; umbilico minimo; operculo spirali, anfractibus rapide majoribus, oblique striatis. (Sow. l. c.)

6. T. armata Adams. 404

T. rimato-subperforata, elongato-conica, solidiuscula, longitudinaliter plicata (plicis confertis, filaribus, suboctonis ad suturam in fasciculum prominentem collectis), sericina, cinereo-fusca, interdum rufo-maculata; spira elongata, truncata; anfr. superst. 5 modice convexi, regulariter accrescentes, ultimus antice breviter solutus, basi obsolete spiraliter sulcatus; apertura subverticalis, subobliquo ovalis; perist. simplex, continuum, vix expansiusculum, superne angulosum. — Operc. praecedentis. — Long. 15, diam. $7^{1}/_{2}$ mill. Ap. $5^{1}/_{2}$ mill. longa. (Coll. Nr. 175.)

Cyclostoma armatum Adams Contrib. to Conch. N. 1. p. 10.
— — *Chemn.* ed. II. N. 378. t. 46. f. 24—26.
Tudora armata Pfr. Consp. N. 360.

Habitat in insula Jamaica.

7. T. mutica Adams. 405

T. subperforata, subturrita, solidiuscula, longitudinaliter confertissime plicato-striata, parum nitens, cinereo-fusca; spira elongata, truncata; sutura subsimplex; anfr. superst. 5 modice convexi, lente accrescentes, ultimus antice breviter solutus, dorso carinatus; apertura ab axi paululum recedens, ovalis; perist. simplex, expansiusculum, superne angulatum. — Operc. praecedentium. — Long. 14, diam. $5^{1}/_{2}$ mill. Ap. 5 mill. longa. (Mus. Cuming.)

Cyclostoma muticum Adams Contrib. to Conch. N. 1. p. 11.
Tudora mutica Pfr. Consp. N. 361.

Habitat in insula Jamaica.

8. T.? maritima Adams. 406

T. rimata, oblongo-turrita, solida, longitudinaliter conferte plicata, vix nitens, carnea, unicolor vel lineis rubris obsolete cincta; spira elongata, breviter truncata; sutura confertim serrulata; anfr. superst. $5^{1}/_{2}$ parum convexi, ultimus basi spiraliter subsulcatus; apertura verticalis, oblique subovalis; perist. simplex, undique breviter expansum, marginibus ad ventrem anfr. penultimi angulatim junctis, columellari angusto, appresso. — Operc.? — Long. 13, diam. $5^{1}/_{2}$ mill. Ap. 5 mill. longa, 4 lata. (Coll. Nr. 176.)

Cyclostoma maritimum Adams in Proc. Bost. Soc. 1846. II. p. 102. *)

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*) T. elongata, decollata, aurantia, costulis exilibus plurimis eleganter

Cyclostoma maritimum Chemn. ed. II. N. 275. t. 38. f. 5. 6.
— *Petrarum Rang* in sched. Cuming.
Tudora? maritima Pfr. Consp. N. 362.

β. Testa majore, pallida, plicis validioribus, paulo distantioribus; long. 15½, diam. 6⅔ mill. (Mus. Cuming. Spec. authent.)

Cyclostoma Aurora Adams Contrib. to Conch. N. 1. p. 11. *)
— *maritimum var. Chemn.* ed. II. t. 46. f. 38.

Habitat in insula Jamaica.

407 9 **T.? Tappaniana Adams.** †

T. elongato-conoidea, striis longitudinalibus validis et spiralibus minus distincte impressis sculpta, fusco-aurantiaca, fascia pallidiore infra peripheriam anfr. ultimi notata, columella fusca; spira modice curvilinearis, truncata; anfr. superst. 4, convexiusculi, sutura modice impressa; apertura ovalis, superne acuta, margine acuto, non reflexo; umbilicus indistinctus. — Operc.? — Diverg. media circa 30°; long. 0,41; lat. max. 0,2; lat. min. 0,18 poll. (Ad.)

Cyclostoma Tappanianum Adams Contr. to Conch. N. 9. p. 157. **)
Tudora? Tappaniana Pfr. Consp. N. 363.

Habitat in insula Jamaica.

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ornata; sutura exile crenulata; anfr. 2 perditis, 7 reliquis; umbilico minimo; apertura ab anfr. penultimo disjuncta, supra angulata et auriculata; labro acuto. — Diverg. 30°; alt. 0,63, lat. 0,27 poll. (Adams l. c.)

*) Shell much elongated, ovate-conic; very pale orange, sometimes with very faint spiral darker lines, white next the aperture; with very strong not closely set whitish transverse raised lines, and two or three very faintly impressed spiral striae on the upper part of the whorls; spire with slightly convex outlines; apex truncate with the loss of three whorls; four and one-half whorls remaining, moderately convex, with a well impressed suture; aperture ovate, moderately spreading, appressed a little to the penult whorl below the angle above, which is detached; lip rather thin, scarcely spreading and but little reflected; umbilicus very small, with strong spiral striae. Mean divergence 30°; length 0,65; greatest breadth 0,31; least breadth 0,26 inch. (Adams l. c.)

**) Shell elongate conoid: brownish orange, with a paler band below the periphery of the last whorl, with the columella brown: with crowded strong transverse striae, and less strongly impressed spiral striae; spire with the outlines moderately convex, truncated with the loss of — whorls; remaining whorls four slightly convex, with a moderately impressed suture: aperture ovate, acute above, with the margin not reflected but sharp: umbilicus indistinct. (Ad. l. c.)

10. T.? quaternata Lamarck. 408

T. rimato-perforata, ovato-oblonga, decollata, longitudinaliter subtilissime costulato-striata, lineis transversis subdecussata, albida; sutura albo-marginata, confertissime denticulata; anfr. superst. 4 convexiusculi, lente accrescentes, ultimus breviter solutus, dorso carinatus, prope rimam distinctius spiraliter sulcatus; apertura oblique elliptica, intus pallide fulvescens; perist. continuum, rectum, subincrassatum, marginibus angulatim junctis, columellari subdilatato. — Operc.? — Long. 19, diam. 10 mill. Ap. 7½ mill. longa, 5⅓ lata. (Mus. Cuming.)

Cyclostoma quaternata Lam. Hist. VI. p. 147. N. 16. Ed. Desh. VIII. p. 358. N. 15. *)
— — *Deless.* Recueil t. 29. f. 3.
— *quaternatum Sow.* Thes. N. 165. p. 149. t. 28. f. 178. 179. **)
— — *Chemn.* ed. II. N. 76. p. 81. t. 10. f. 12. 13.
Cistula quaternata Gray Catal. Cycloph. p. 59. N. 12.
Tudora quaternata Pfr. Consp. N. 364.

Habitat in Africa? (Sowerby.)

11. T. pupaeformis Sowerby. 409

T. perforata, ovato-oblonga, decollata, tenuiuscula, rufescenti-carnea, lineis elevatis spiralibus, longitudinalibusque percurrentibus, confertis, subtiliter reticulata; sutura confertim et acute denticulata; anfr. superst. 4 vix convexi, ultimus basi spiraliter distincte sulcatus, antice solutus, dorso acute carinatus; apertura subobliqua, ovalis; perist. continuum, breviter expansum, marginibus angulo acute prominente junctis. — Operc. immersum, paucispirum, anfr. oblique subsulcatis. — Long. 13½, diam. 7 mill. Ap. intus 5 mill. longa, 4 lata. (Coll. Nr. 177.)

Cyclostoma pupiforme Sow. Thes. N. 34. p. 102. t. 24. f. 43. 44. ***)

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*) T. cylindraceo-turgida, breviuscula, apice truncata, subperforata, longitudinaliter tenuissimeque striata, albida; anfr. 4 convexis; labro margine subreflexo. — Long. 9 lin. — Hab.? (Lam. l. c.)

**) T. oblongo-subcylindracea, tenui, apice decollato; anfr. 4 convexis, spiraliter tenuissime striatis; sutura crenulata; apertura elliptica, superne angulifera; peritremate continuo, disjuncto, angusto, reflexo; umbilico minimo, spiraliter striato. (Sow. l. c.)

***) T. subacuminato-cylindracea, apice truncato; anfr. 4 turgidis, creberrime decussatis; sutura distincta; apertura subrotunda, superne angulata; peristomate subreflexo; umbilico minimo. (Sow. l. c.)

Cyclostoma pupiforme Chemn. ed. II. N. 124. p. 121. t. 14. f. 15. 16.
Cistula pupiformis Gray Catal. Cycloph. p. 59. N. 13.
Tudora pupaeformis Pfr. Consp. N. 365.

Habitat in insula Haiti?

Obs. An praecedentis varietas?

§. 2.

410 12. **T.? columna (Turbo) Wood.**

T. subrimata, oblongo-conica, tenuiuscula, longitudinaliter confertim plicata, albido-lutescens, maculis subrotundis, 3-seriatis, castaneis ornata; sutura confertim denticulata; anfr. superst. 5—6 convexiusculi, ultimus interrupte quinquefasciatus; apertura verticalis, oblique subelliptica, latere columellari recedens; perist. subduplicatum: internum continuum, incumbens, subadnatum, externum dilatatum, patens, ad anfr. penultimum late excisum, superne et in margine sinistro excavato-auriculatum. — Operc.? — Long. 20, diam. 8 mill. Ap. 5, cum limbo 8 mill. longa. (Coll. Nr. 178.)

Turbo columna Wood Ind. Suppl. t. 6. f. 21.
Cyclostoma columna Gray in Wood Suppl. p. 36.
— — *Desh.* in Lam. hist. VIII. p. 372. N. 41? *)
— — *Chemn.* ed. II. N. 39. p. 47. t. 6. f. 13. 14. t. 46. f. 27. 28.
— *quinquefasciatum Adams* Contrib. to Conch. N. 1. p. 12. **)
Cistula columna Gray Catal. Cycloph. p. 57. N. 2.
Tudora? columna Pfr. Consp. N. 366.

Habitat in insula Jamaica.

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*) T. elongato-conica, turrita, apice acuta, tenuissime striata, albo-lutescente, lineis puncticulatis fuscis ornata; anfr. 8 convexis ultimo basi perforato; apertura ovato-circulari; labro reflexo. — Long. 16, lat. 8 mill. (Desh. l. c.)

**) Shell much elongated; whitish with a faint tinge of brown with — on the upper whorls three, and on the last whorl five spiral series of very dark brown spots which have pale brown shadows, the spots being also in inequidistant transverse lines; with rather distant smooth transverse ridges; spire with scarcely convex outlines; apex truncate with the loss of nearly four whorls; five whorls remaining, with a moderately impressed suture; aperture ovate, subangular at each end; inner peritreme thickened, white, appressed to the outer one, which is moderately expanded, sinuate, reflected nearly to the plane of the aperture, much expanded and concave above and also below on the left side, wanting opposite the penult whorl; umbilicus very small, nearly concealed by the lip. Mean divergence 33°; length 0,77; greatest breadth 0,39; least breadth 0,3 inch. (Adams l. c.)

13. T.? Adamsi Pfr. 411

T. perforata, oblongo-conica, decollata, tenuis, subdiaphana, longitudinaliter confertissime plicata, pallide cornea, castaneo irregulariter aspersa; basi saepe castaneo unicingulata; sutura dense crenulata; anfr. superst. 5—6 convexiusculi, regulariter accrescentes; apertura verticalis, oblique subovalis, intus concolor; perist. subduplex: internum vix distinguendum, saepe obsoletum, externum breviter adnatum, expansum, superne angulatum, infra perforationem angustissimum. — Operc.? — Long. 15, diam. 7 mill. Ap. intus 4½ mill. longa. (Coll. Nr. 179.)

Cyclostoma crenulatum Gray mss. olim.
— — *Sow.* Thes. N. 163. p. 148. t. 28. f. 174. 175. *)
— *Adamsi Pfr.* in Zeitschr. f. Mal. 1846. p. 43.
— — *Chemn.* ed. II. N. 40. p. 48. t. 6. f. 20. 21. t. 46. f. 29. 30.
Cistula columna var. Gray Catal. Cycloph. p. 57.
Tudora? Adamsi Pfr. Consp. N. 367.

Habitat in insula Jamaica.

Obs. Differt a *C. columna Wood* praeter colorem forma aperturae, latere sinistro non recedentis, peristomate interno obsoleto, externo vix dilatato, margine supero et columellari non auriculatis.

14. T.? Chemnitzii Wood. 412

T. perforata, ovato-conica, decollata, solida, laevigata, albida, fascia 1 lata fusca (vel 4 interruptis) ornata; anfr. superst. 4—5 convexi, ultimus circa perforationem angustam sulcis nonnullis spiralibus exaratus; apertura oblique ovalis; perist. subduplicatum: internum tenue, non prominens, externum breviter expansum, continuum, marginibus angulatim junctis, supero et columellari plicato-auriculatis. — Operc. (ex Sow.) testaceum, anfractibus paucis striatis. — Long. 14, diam. 8 mill. Ap. intus 5½ mill. longa, 4½ lata. (Mus. Cuming.)

Turbo Chemnitzii Wood Ind. Suppl. t. 6. f. 6.
Cyclostoma Chemnitzii Gray in Wood Suppl. p. 36.

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*) T. turrito-pyramidali, pallida, fusco-maculata, apice decollato; anfr. 4 ventricosiusculis, transversim striatis; sutura crenulata; apertura subobliqua, elliptica, superne subacuminata, peritremate reflexo-patente, superne acuminato, latere umbilicali flexuoso, sinuato; umbilico parvo. (Sow. l. c.)

Cyclostoma Chemnitzii Sow. Thes. N. 140. p. 141. t. 28. f. 155. 156.*)
— — *Chemn.* ed. II. N. 88. p. 92. t. 12. f. 32. 33.
Choanopoma interruptum var. min. Gray Catal. Cycloph. p. 54.
Tudora? Chemnitzii Pfr. Consp. N. 368.

Habitat in Africa meridionali. (Sow.)

§. 3.

413 15. **T. nobilis Pfr.**

T. perforata, ovato-turrita, solida, longitudinaliter confertim filoso-plicata, parum nitida, fusco-violacea; spira elongata, conica, integra, obtusula; sutura confertissime albo-crenulata; anfr. 7 modice convexi, ultimus antice breviter solutus, basi concentrice striatus; apertura verticalis, irregulariter ovalis, intus fusca; perist. album, duplex: internum breviter porrectum, expansiusculum, marginibus superne angulatim junctis, columellari brevissime arcuato, externum undique breviter patens. — Operc. paucispirum, profunde oblique sulcatum. — Long. 32, diam. 15 mill. Ap. intus 11 mill. longa, 8 lata. (Mus. Cuming.)

Cyclostoma nobile (Tudora) Pfr. in Proc. Zool. Soc. 1852. 9 Mart.
— — *Chemn.* ed. II. N. 390. t. 47. f. 27. 28.

Habitat in insula Haiti (Sallé).

414 16. **T. violacea Pfr.**

T. subobtecte perforata, ovato-turrita, truncata, solidula, lineis elevatis spiralibus et confertioribus longitudinalibus oblongo-granulata, haud scabra, non nitens, saturate violacea; spira turrita, truncata; anfr. superst. 4½ convexi, ultimus rotundatus; apertura subverticalis, angulato-ovalis; perist. duplex, album, continuum: internum expansiusculum, adnatum, externum margine dextro subincrassatum, anguste angulatim patens, columellari in laminam sinuosam, perforationem occultantem, nec claudentem dilatatum. — Operc. ut *T. fasciae*. — — Long. 20, diam. 11 mill. Ap. 7½ mill. longa, 5½ lata. (Mus. Cuming et Coll. Nr. 180.)

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*) T. oblonga, subconoidali, apice decollato; anfr. 4—5 rotundatis, laevibus, fascia fusca spirali unica, vel fasciis 4 fuscis interruptis; sutura distincta; apertura subrotunda, superne subacuminata; peritremate duplici, interno tenui, simplici, externo latiusculo, subexpanso, superne subacuminato, flexuoso; umbilico minimo. (Sow. l. c.)

Cyclostoma violaceum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 308. t. 40. f. 25—27.
Tudora violacea Pfr. Consp. N. 369. p. 65.

Habitat in insula Cuba (Poey).

Obs. Cl. Poey hanc speciem nomine *C. bilabiati Orb.* communicavit, sed hujus descriptioni et figurae minime congruit.

17. T. fascia (Turbo) Wood. 415

T. perforata, oblongo-turrita, decollata, solidiuscula, lineis elevatis longitudinalibus et spiralibus aequaliter et confertim reticulata, pallide fuscescens, obsolete fasciata; sutura crenulata; anfr. superst. 5 convexiusculi, ultimus antice inflatus, subascendens, basi striis spiralibus remotioribus et validioribus sculptus; apertura verticalis, subelliptica, superne subangulata, intus castanea; perist. duplex: internum acutum, breviter porrectum, externum expansum, pallide aurantiacum, superne corniculato-auriculatum, margine sinistro stricto, reflexo, cum basali angulum obtusum formante. — Operc. normale. — Long. 23, diam. 11 mill. Ap. $7^1/_2$, cum limbo 10 mill. longa. (Coll. Nr. 181.)

Turbo fascia Wood Index Suppl. t. 6. f. 8.
Cyclostoma fascia Gray in Wood Suppl. p. 36.
— — *Sow.* Thes. N. 164. p. 149. t. 28. f. 176. 177. *)
— — *Chemn.* ed. II. N. 37. p. 45. t. 6. f. 9. 10.
Cistula fascia Gray Catal. Cycloph p. 57. N. 1.
Tudora fascia Pfr. Consp. N. 370.

β. Testa solidiore, minore, distinctius reticulata.
Cyclostoma proximum Adams Contrib. to Conch. N. 1. p. 8. **)

Habitat in insula Jamaica.

18. T. Augustae Adams. 416

T. subperforata, oblongo-conica, truncata, solida, striis longitudinalibus superne distinctis, sensim subtilioribus et li-

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*) T. turrito-pyramidali, pallida, fusco-fasciata, fasciis nonnunquam varie interruptis; apice plerumque decollato; anfr. 4–6 ventricosiusculis, plerumque decussato-striatis; sutura crenulata; apertura subobliqua, elliptica, superne subacuminata; peritremate duplici, interno simplici, externo variabile, reflexo-patente, superne acuminato, latere umbilicali flexuoso, sinuato; umbilico minori; operc. spirali, anfr. paucis, oblique striatis. (Sow. l. c.)

**) Species like *C. fascia Gray*, but the shell is much more coarsely decussated, the transverse lines being stronger and the spiral lines less numerous; the lip is less expanded and more solid, and the whole shell is thicker and smaller. (Adams l. c.)

neis obtusis spiralbus subdecussata, fusco-albida, rufo seriatim punctata et 1—2-fasciata; spira turrita, late truncata; sutura confertim crenulata; anfr. superst. $4^1/_2$—5 convexiusculi; apertura verticalis, oblique ovalis; perist. duplex: internum expansiusculum, album, externum album, luteum vel rufo-ignescens, dilatatum, rectangule patens, ad anfractum penultimum excisum, margine columellari sinuato-reflexo, auriculato. — Operc. praecedentis. — Long. 18, diam. 8 mill. Ap. 6 mill. longa. (Coll. Nr. 182.)

Cyclostoma Augustae Adams Contrib. to Conch. N. 1. p. 7. *)
— — *Chemn.* ed. II. N. 311. t. 40. f. 34. 35.
Tudora Augustae Pfr. Consp. N. 371.

β. Testa aequaliter decussata, nitente, brunneo et albido variegata.
Cyclostoma nitens Adams Contrib. to Conch. N. 1. p. 8. **)
— *Augustae var. Adams* ibid. N. 9. p. 180.

Habitat in insula Jamaica.

Obs. Species praecedenti tam affinis, ut characteribus essentialibus vix distingui possit. An ejus varietas?

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*) Shell much elongated, conic; shining, whitish or brownish, with six spiral series in three pairs of narrow dark brown spots which are either oblong or sagittate, the middle pair being more or less confluent, — with also a broad band and some more or less distinct lines of dark brown around the umbilical region; with transverse striae very strong on the upper whorls, and feeble and distant on the last whorl, decussated by faint spiral striae; spire with the outlines scarcely convex; apex truncate with the loss of two or three whorls; five whorls remaining, with a moderately impressed suture, which is subcrenulate by the enlargement of the upper ends of the transverse lines in twos and threes; aperture ovate-orbicular, oblique; inner peritreme a little produced and reflected; outer peritreme well expanded, white, in some yellowish, more or less concave, much produced above and inflected forming a deep pit, before the umbilicus reflected far back into a deep sinus, with an alate expansion next to the sinus; umbilicus very small. Mean divergence 38°; length 0,9; greatest breadth 0,52; least breadth 0,4 inch. (Adams l. c.)

**) Shell moderately elongated, conic; shining, brownish white with white spots, and spiral interrupted bands of pale brown, deep orange near the aperture; very finely decussate with nearly equal slightly elevated lines, but on the upper whorls the transverse lines are more prominent and the spiral lines obsolete; spire with the outlines slightly convex; apex truncate, with the loss of two or three whorls; four whorls remaining, with a well impressed suture; aperture large ovate-orbicular, moderately angulated above; inner peritreme scarcely distinct, reflected upon the outer peritreme, which is reflected nearly into the plane of the aperture, is moderately spreading, sharp, thickened, narrower and bent back opposite the umbilicus, which is small. Mean divergence 40°; length 0,56; greatest breadth 0,36; least breadth 0,26 inch. (Adams l. c.)

19. T.? crenulosa Adams. 417

T. perforata, elongato-conica, solida, truncata, longitudinaliter confertim costato-striata, coerulescenti-albida, fusculo-nebulosa et lineis rufis in ziczac flexis elegantissime picta; sutura parum impressa, confertim denticulata; anfr. superst. 5 parum convexi, ultimus basi fuscus; apertura verticalis, ovalis, superne subangulosa, intus livida; perist. duplex: internum expansum, appressum, rubrum, externum album, dilatato-expansum, superne et infra columellam angulatim productum. — Operc.? — Long. 21, diam. 9½ mill. Ap. 6½ mill. longa. (Mus. Cuming.)

Cyclostoma crenulosum Adams Contrib. to Conch. N. 1. p. 12. *)
Tudora? crenulosa Pfr. Consp. N. 372.

Habitat in insula Jamaica.

20. T.? canescens Pfr. 418

T. subperforata, oblongo-turrita, truncatula, solida, lineis longitudinalibus et spiralibus elevatis regulariter clathrata, parum nitida, griseo-albida; spira elongata; sutura tuberculis confertis albis crenata; anfr. superst. 7 vix convexiusculi, ultimus basi attenuatus, circa perforationem obsoletam distinctius spiraliter sulcatus; apertura verticalis, angulato-ovalis, intus fusco-carnea; perist. duplex: internum vix porrectum, externum undique breviter expansum, superne angulatum, anfractui penultimo breviter adnatum. — Operc.? — Long. 20, diam. 7 mill. Ap. 5 mill. longa, 4 lata. (Mus. Cuming.)

Cyclostoma canescens Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 284. t. 38. f. 36. 37.
Tudora canescens Pfr. Consp. N. 373. p. 65.

Habitat . . .?

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*) Shell much elongated, conic; brownish sometimes with transverse darker clouds and slender zigzag spots, with a band of the same around the anterior part; very coarsely striated transversely, the upper ends of the raised lines being developed into very numerous sutural crenulations, spiral lines wanting; spire with nearly rectilinear outlines; apex truncate with the loss of three whorls; five whorls remaining, with a moderately impressed suture, which is nearly concealed by the crenulations; aperture ovate-orbicular; inner peritreme orange red, on the right side coalescing with the outer peritreme, which is white, moderately expanded, sharp, concave, more produced and inflected above and at the lower end of the left side; umbilicus very small. Mean divergence 35°; length 0,83; greatest breadth 0,45; least breadth 0,35 inch (Adams l. c.)

419 **21. T.? simulans Adams.** †

T. anguste umbilicata, longe ovato-conica, lineis longitudinalibus elevatis confertis validiusculis striisque spiralibus indistinctis sculpta, pallidissime brunnea vel albida, seriebus numerosis spiralibus macularum parvularum saturate brunnearum, saepe elongataram, in strigas longitudinales, inaequidistantes ordinatarum picta; spira subcurvilinearis, truncata; sutura bene impressa, modice crenulata; anfr. superst. 4—5 convexi; apertura ovato-orbicularis; perist. duplex: internum modice productum et reflexum, externum modice expansum et fere in planum aperturae reflexum. — Operc.? — Diverg. media circa 37°; long. 0,54; lat. max. 0,34; lat. min. 0,23 poll. (Ad.)

Cyclostoma simulans Adams Contrib. to Conch. N. 8. p. 138. *)
Tudora? simulans Pfr. Consp. N. 374.

Habitat Easington insulae Jamaicae.

Obs. Primo aspectu *C. Adamsii* simile, sed minus elongatum, spiraliter striatum et peritremate duplice diversum. (Ad.)

420 **22. T.? ovata Pfr.**

T. obtecte perforata, oblongo-ovata, truncata, tenuis, longitudinaliter confertim plicatula, sericea, fusco-cornea, vel pallidissime cornea, maculis rufis seriatim dispositis ornata; spira ovato-conica, truncata; sutura levis, irregulariter tuberculato-crenata; anfr. superst. 5 convexiusculi, ultimus paulo angustior, basi obsolete spiraliter sulcatus; apertura verticalis, rotundato-ovalis; perist. fusculum, duplex: internum breviter porrectum, externum undique dilatatum, campanulato-expansum, radiato-costatum, superne angulatim reflexum, anfractui penultimo longe adnatum, perforationem claudens, margine sinistro subauriculato, libero. — Operc.? — Long. 17½, diam. 8 mill. Ap. 5 mill. longa, 4 lata. (Mus. Cuming.)

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*) Shell long ovate conic: very pale brown or dingy white, with numerous spiral series of small dark brown spots, which are often elongate, and which are arranged in inequidistant transverse stripes: with closely set rather strong transverse raised lines and indistinct spiral striae, moderately crenulate along the suture; apex truncate with the loss of — whorls; spire with the outlines moderately curvilinear: whorls remaining after truncation four or five, quite convex, with a well impressed suture: aperture ovate orbicular, with two peritremes, of which the outer one is moderately expanded and reflected nearly into the plane of the aperture; the inner one is moderately produced and reflected: umbilicus very narrow, but extending through the truncate summit. (Adams l. c.)

Cyclostoma ovatum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 306. t. 40. f. 21. 22.
Tudora? ovata Pfr. Consp. N. 375. p. 65

Habitat in insula Cuba (Poey.)

23. T. pupoides Morelet. 421

T. obtecte umbilicata, pyramidalis, integra, tenuis, longitudinaliter subundulato-plicata, fusco-cinerascens vel fulvida, lineis rubiginosis cingulata, diaphana, parum nitida; spira turrita, integra, acutiuscula; sutura profunda, subdistanter crenata; anfr. $6^1/_2$ convexi, ultimus rotundatus; apertura verticalis, ovali-subcircularis; perist. album, duplex: internum breviter porrectum, externum dilatatum, concentrice striatum, subhorizontaliter patens, superne angulatim reflexiusculum, ad anfr. penultimum adnatum, margine columellari bilobato, lobo supero umbilicum omnino claudente, infero semisoluto, radiatim plicato. — Operc. terminale, testaceum, planum, anfr. $3^1/_2$ oblique striatis. — Long. $15^1/_2$, diam. fere 7 mill. Ap. 4 mill. longa, $3^2/_3$ lata. (Mus. Cuming.)

Cyclostoma pupoides Morelet Test. noviss. p. 23. N. 57. *)
— — *Chemn.* ed. II. N. 305. t. 40. f. 19. 20.
Tudora pupoides Pfr. Consp. N. 376.

Habitat scopulos in Isla de Pinos prope Cubam.

24. T. Moreletiana Petit. 422

T. subperforata, oblongo-pupaeformis, tenuiuscula, truncata, longitudinaliter subremote filoso-costata, fusco-violacescens vel pallide fulva, lineolis saepissime rubellis subinterruptis fasciata; sutura profunda, albo-crenulata; anfr. superst. 4 — 5 convexiusculi, ultimus antice solutus, dorso carinatus; apertura verticalis, ovalis; perist. duplex: internum brevissimum, externum reflexiusculum, in angulo supero uncinato-reflexum. — Operc. testaceum, paucispirum, anfr. externo profunde striato. — Long. $12^1/_2$, diam. $6^1/_3$ mill. Ap. 4 mill. longa. (Coll. Nr. 183.)

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*) T. pyramidalis, umbilicata, fusco-cinerascens vel corneo-fulvescens; lineolis rubiginosis cingulata, costulato-plicatula; spira turrita, integra, acuminata; anfr. 6 convexi, suturis profundis, crenulatis; apertura rotundo-ovalis; perist. duplex, externo tenui, lato, striato, radiatim subplicato, umbilicum tegente, infra semisoluto; margine exteriore sursum angulatim reflexiusculo. — Long. 16, diam. 7 mill. (Mor. l. c.)

Cyclostoma disjunctum Morelet Test. noviss. p. 23. N. 58. *) Nec Math. nec Moric.
— *Morelletiana Petit* in Journ. Conch. I. p. 46.
— *Moreleti Pfr.* in Zeitschr. f. Mal. 1850. p. 88.
— *Moreletianum Chemn.* ed. II. N. 272. t. 37. f. 27. 28.
Tudora Moreletiana Pfr. Consp. N. 377.

Habitat in Isla de Pinos prope Cubam.

423 25. **T. avena Adams.**

T. subperforata, turrita, truncata, longitudinaliter confertim plicata, fuscula, rufo seriatim maculata; sutura fasciculis plicarum prominentibus albo-crenulata; anfr. superst. 5 parum convexi, ultimus antice solutus, dorso carinatus; apertura verticalis, ovalis; perist. duplex: internum vix prominens, externum expansum, marginibus superne angulatim junctis, dextro latiore. — Operc. normale. — Long. $8^{1}/_{2}$, diam. $3^{1}/_{3}$ mill. Ap. 2 mill. longa. (Coll. Nr. 184.)

Cyclostoma avena Adams Contrib. to Conch. N. 1. p. 6. **)
— — *Chemn.* ed. II. N. 380. t. 46. f. 33—35.
Tudora avena Pfr. Consp. N. 378.

Habitat in insula Jamaica.

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*) T. oblongo-conoidea, umbilicata, truncata, regulariter costulato-plicata, fusco-violacescens vel pallide fulva; lineolis saepissime rubellis subinterruptis fasciata; spira turrita; anfr. $4^{1}/_{2}$—5 convexi, ultimo ad umbilicum planulato, subporrecto, disjuncto, sursum carinato. Sutura valde crenulata; apertura ovalis. Perist. duplex: internum lineare; externum subdilatatum, liberum, margine supero angulato, reflexiusculo, subcanaliculato, carinae affixo. — Long. 15, diam. 7 mill. (Morelet l c.)

**) Shell small, elongate; whitish, more or less tinged with brown, with numerous small distant brown dots in spiral series on the lower whorls, on the upper whorls blueish gray; with closely set transverse moderately elevated lines, some of which, in twos or rarely in threes, are more developed at the sutures into small white crenulations; spire with moderately convex outlines; apex truncate with the loss of two or three whorls; about four and one-half whorls remaining, very convex, with a deep suture; last whorl much detached from the penult whorl near the aperture; aperture suborbicular, contracted a little on the left side; inner peritreme a little produced; outer peritreme rather small, much less extended on the left than on the right side, not reflected quite back to the plane of the aperture, produced above into a concave angle; umbilicus very small. Mean divergence 23°; length 0,32; greatest breadth 0,14; least breadth 0,11 inch. (Adams l. c.)

XXIII. Leonia Gray.

Operculum ovale, testaceum, extus perconvexum, unispiratum, nucleo juxta marginem columellarem posito. Testa ovato-conica; apertura ovalis; peristoma, simplex, subreflexum.

Leonia Gray Syn. Brit. Mus. 1840. Ed. 1842. p. 91; Proc. Zool. Soc. 1847. p. 181. n. 517; et Catal. Cycloph. p. 34.
— *Pfr.* in Zeitschr. f. Mal. 1851. p. 168; Consp. p. 40.
Cyclostoma sp. *Lam.* et *Auctt.*

Unica species hucusque nota:

1. L. mammillaris Lamarck. 424

T. subperforata; ovato-elongata, crassiuscula, albida vel fulvo-carnea, fascia interrupta fusca infra suturam saepe ornata; spira conica, apice mammillata, nuda, glabra; anfr. 5½ convexi, superiores cancellati, ultimus punctis et lineolis impressis seriatim cingulatus; apertura fere verticalis, oblique ovalis, superne angulata, intus alba; perist. subincrassatum, album, vix expansiusculum, marginibus callo continuo junctis. — Operc. typicum. — Long. 18—22, diam. 9—10½ mill. Ap. 6½—8 mill. longa. (Coll. Nr. 185.)

Cyclostoma mammillaris Lam. Hist. VI. p. 147. N. 20. Ed. Desh. VIII. p. 359. N. 19. *)
— — *Deless.* Recueil t. 29. f. 10.
— — *Chenu* Ill. conch. Livr. 73. t. 1. f. 10.
— *Voltzianum Michaud* Cat. test. Alg. p. 10. f. 21. 22. **)
— — *Pot.* et *Mich.* Gal. Douai I. p. 243. t. 24. f. 24. 25.
— — *Rossm.* in Wagn. Alg. III. p. 260. t. 12. f. 14.
— — *Graells* Catal. Mol. terr. Esp. p. 8. f. 9. 10. ***)

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*) T. breviuscula, ovata, subperforata, transversim minutissimeque striata, alba, apice lutescente, anfr. 5—6 convexis; spira mammilliformi; labro subreflexo. — Long. 7½‴. — Habitat? (Lam. l. c.)

**) T. ovato-conica, perforata, saepissime albida, aliquando pallide maculata, longitudinaliter striata, transversim obsolete sulcata; sulcis regularibus; anfr. 6 convexis, subtiliter cancellatis; apertura rotunda, integra; perist. simplici, subreflexo; apice obtuso. — Operculo rotundato, albido, intus concavo, linea spirali instructo, extus convexo, ad marginem rugoso, inferne subperforato. — Long. 8, diam. 4 lin. (Mich. l. c.)

***) Animale corpore livido-obscuro, basi tentaculorum posterius macula lutea. — Testa ovato-oblonga, albida, flammulis fuscis ornata, anfract. senis convexiusculis, obsolete cancellatis, duobus primis laevigatis, nitidulis; apertura ovata, superne angulata; labro simplici, albo, paululum reflexo; fauce crocco-fulva. — Alt. 16 mill. Lat. 8 mill. — Operculo calcareo, extus con-

Cyclostoma Volziana Desh. in Lam. hist. VIII. p. 371. N. 39. *)
— *Woltzianum Terv.* Catal. Alg. p. 33.
— *mamillare Sow.* Thes. N. 35. p. 102. t. 24. f. 45. **)
— *mammillare Chemn.* ed. II. N. 126. p. 122. t 14. f. 28. 29.
— *laevigatum Sow.* mss. olim, teste Gray.
— *Velascoi Graells* mss. olim, teste ipso.
Leonia mammillaris Gray Catal. Cycloph. p. 34. N. 1.
— — *Pfr.* Consp. N. 379.

Habitat in Hispania et Algeria.

XXIV. Cistula Gray.

Operculum ovale, tenue, cartilagineum, strato levi testaceo extus munitum, anfractibus paucis sensim crescentibus, margine plerumque subliberis, nucleo excentrico. Testa globoso-conica, vel ovato-, vel oblongo-turrita, plerumque truncata; apertura ovalis; peristoma simplex, expansum, vel duplicatum.

Cistula Gray Catal. Cycloph. p. 57. (ex parte.)
— *Pfr.* in Zeitschr. f. Mal. 1851. p. 169; Consp. p. 41.
Choanopomatis sp. *Gray* l. c.
Cyclostomatis spec. *Auctt.*

Conspectus specierum.

A. Globoso-conicae . . . . §. 1. Nr. 1— 4.
B. Ovato- vel oblongo-turritae.
1. Anfractu ultimo adnato.
a. Peristomate simplice . . . . §. 2. — 5— 7.
b. Peristomate duplice,
α. externo dilatato . . . . . §. 3. — 8—11.
β. externo brevi . . . . . §. 4. — 12—15.

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vexiusculo, margine externo lamellis imbricatis fimbriato; columellari submarginato: umbilico subperforato, scissura laterali instructo: superficie interna concava. (Graells l. c.)

*) T. ovato-elongata, basi vix perforata, albida vel fulva, transversim tenue striata; anfract. convexis, ultimo majore; apertura ovata, superne angulata, intus alba; labro simplice; operculo paucispirato, convexo, ad peripheriam plicato. (Desh. l. c.)

**) T. subacuminato-cylindracea, laevi, albicante, fusco-punctulata, apice obtusiusculo; anfr. 5—6 subventricosis, superne obsoletissime decussatis; apertura subovali, superne acuminatiuscula; peritremate tenui, subreflexo; umbilico minimo. (Sow. l. c.)

2. Anfractu ultimo antice soluto.
a. Peristomate subsimplice . . . §. 5. Nr. 16—19.
b. Peristomate distincte duplicato,
α. limbo externo plano . . . §. 6. — 20—27.
β. limbo externo fimbriato . . §. 7. — 28—34.

§. 1.

1. C.? platychila Pfr. 425

T. perforata, ovato-conica, decollata, tenuiuscula, laevigata, diaphana, hyalino-albida; anfr. superst. 4 convexi, sensim accrescentes, ultimus basi spiraliter obsolete subsulcatus; apertura verticalis, ovalis; perist. duplicatum: internum subexpansum, non prominens, externum subincrassatum, angulatim late reflexum, marginibus ad anfr. penultimum callo angusto angulatim junctis, columellari medio angulatim protracto. — Operc.? — Long. 26, diam. 16 mill. Ap. $10^1/_2$ mill. longa, 8 lata. (Mus. Gruner.)

Cyclostoma latilabre Pfr. in Chemn. ed. II. N. 72. p. 78. t. 10. f. 26. 27.
— *platychilum Pfr.* mss.
Cistula? platychila Pfr. Consp. N. 380.

Habitat . . .?

2. C. catenata Gould. 426

T. umbilicata, globoso-turbinata, tenuis, lineis spiralibus confertis, magis minusve elevatis notata, pallide rubello-cornea, fasciis angustis, interruptis, castaneis ornata; spira conica, integra; anfr. $5^1/_2$ convexi, ultimus teres, antice breviter solutus, dorso carinatus; umbilicus apertus, angustus, pervius; apertura vix obliqua, angulato-ovalis; perist. continuum, marginibus superne angulatim junctis, subduplicatum: internum expansiusculum, adnatum, externum undique fere aequaliter dilatatum, horizontaliter expansum, superne subauriculatum. — Operc. typicum. — Long. 11, diam. $7^1/_2$ mill. Ap. intus $4^1/_2$ mill. longa, $3^1/_2$ lata. (Coll. Nr. 186.)

Cyclostoma catenatum Gould in Proc. Bost. Soc. I. 1843. p. 138. *)
— — *Jay* Catal. 1850. p. 254. nr. 5827.

*) T. conico-turrita, fulvo-viridescente; anfr. 5 convexis, striis elevatis volventibus, fusco articulatis; apertura suborbiculari, anfractu penultimo disjuncto; perist. reflexo, postice dentato; operculo albo, calcareo. — Long. $^1/_2$, lat. $^3/_8$ poll. (Gould l. c.)

Cyclostoma interruptum Gould in Bost. Journ. IV. 4. p. 494.
— *limbiferum Menke* mss., *Pfr.* in Zeitschr. f. Mal. 1846. p. 45.
— — *Chemn.* ed. II. N. 38. p. 46. t. 6. f. 11. 12. t. 21. f. 6.
Chondropoma? limbiferum Pfr. in Zeitschr. f. Mal. 1847. p. 109.
— — *Gray* Catal. Cycloph. p. 55. N. 1.
Choanopoma semiproductum Gray ibid. p. 54. N. 29.
Cistula limbifera Pfr. Consp. N. 381.
β. Testa majore; long. 16, diam. 9 mill.; ap. c. perist. 8 mill. longa, 7 lata, intus 6 mill. longa, 4½ lata. (Coll.)
Cyclostoma limbiferum var. Chemn. l. c. t. 38. f. 3. 4.

Habitat in insula Cuba.

427 3 **C. Agassizii Charpentier.**

T. umbilicata, globoso-turbinata, solidula, spiraliter elevato-lirata (liris alternis minoribus, majoribus sparse castaneo-punctatis), sericea, rubella; spira conica, integra; sutura sub-canaliculata; anfr. 6 convexi, infra suturam plerumque remote albo-punctati, ultimus antice breviter solutus, basi aequaliter liratus, in umbilico mediocri distincte cancellatus; apertura verticalis, ovalis; perist. continuum, superne angulatum, ad anfr. penultimum breviter exciso-sinuatum, marginibus breviter expansis. — Operc. praecedentis. — Long. 13, diam. 7 mill. Ap. 5 mill. longa, 4 lata. (Coll. Nr. 187.)

Cyclostoma Agassizii Charp. mss.
— — *Chemn.* ed. II. N. 274. t. 38. f. 1. 2.
Cistula Agassizii Pfr. Consp. N. 382.

Habitat in insula Cuba.

428 4. **C. pleurophora Pfr.**

T. umbilicata, globoso-turbinata, tenuis, longitudinaliter conferte striata et costulis filaribus, prominentioribus sculpta, diaphana, parum nitida, albido-fulvescens; spira turbinata, apice acutiuscula, cornea; sutura costis denticulata; anfr. 5 convexi, ultimus subteres, antice breviter solutus; umbilicus mediocris, profundus, angulo carinaeformi cinctus; apertura subverticalis, ovali-subcircularis; perist. continuum, simplex, rectum, margine columellari expansiusculo. — Operc. normale, lamina testacea tenuissima, ab interiore cartilaginea sulco profundo separata. — Long. 12, diam. 8½ mill. Ap. 6 mill. longa, 5 lata. (Mus. Cuming.)

Cyclostoma pleurophorum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 299. t. 40. f. 5. 6.
Cistula pleurophora Pfr. Consp. N. 383. p. 66.

Habitat Honduras.

§. 2.

5. **C. radiosa Morelet.** 429

T. vix subperforata, tenuis, ovato-oblonga, truncata, liris concentricis obtusis, lineisque elevatis longitudinalibus confertissimis decussata, haud nitens, diaphana, pallide fulvida, lineis rufis cingulata; sutura simplex; anfr. superst. 4½ convexiusculi, ultimus penultimum non superans; apertura verticalis, subovalis, superne subangulata; perist. simplex, late et rectangule reflexum, limbo concentrice subimbricatim striato et rufo-radiato, ad anfr. penultimum exciso. — Operc. *C. catenatae*. — Long. 15—16, diam. 8 mill. Ap. 5 mill. longa. (Coll. Nr. 188.)

Cyclostoma radiosum Morelet Test. noviss. p. 22. N. 55. *)
— — *Chemn.* ed. II. N. 267. t. 37. f. 15. 16.
Cistula radiosa Pfr. Consp. N. 384.

Habitat petrosa provinciae Petenensis Guatemalae.

6. **C. Tamsiana Pfr.** 430

T. subperforata, oblongo-turrita, vix truncatula (saepe integra), tenuiuscula, longitudinaliter et confertim plicatula, parum nitida, coerulescenti-fusca, lineis castaneis interruptis vel seriebus punctorum ornata; sutura minutissime et confertissime denticulata; anfr. 7 convexi, ultimus antice vix solutus; apertura subverticalis, subangulato-rotundata; perist simplex, continuum, undique breviter expansum. — Operc. fusculum, nucleo parum excentrico. — Long. (testae integrae) 16, diam. 7 mill. Ap. 5 mill. longa, 4½ lata (Coll. Nr. 189.)

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*) T. ventriculoso-pyramidalis, perforata, creberrime decussata, translucida, pallide fulva, lineolis interruptis rubiginosis in ultimo anfractu saturatioribus, ad basin radiatim divergentibus ornata; spira turrito-acuminata, saepius truncata; anfr. 8 convexiusculi, ultimo ventricosulo; apertura rotundo-ovalis, callo nitido cingulata; perist. expansum, concavum, lamelloso-crispatum, superne dimidiatum, appressum; marginibus tenuibus, acutis, versus umbilicum plerumque fimbriatis. — Long. testae integrae 20; diam. 8½ mill. (Mor. l. c.)

Cyclostoma Tamsianum Pfr. in Zeitschr. f. Mal. 1850. p. 77.
— — *Chemn.* ed. II. N. 268. t. 37. f. 19. 20.
Cistula Tamsiana Pfr. Consp. N. 385.

Habitat Porto Cabello Venezuelae (Dr. Tams).

431 7. **C.? Griffithiana Adams.**†

T. ovato-conica, elongata, truncata, pallide rufula, lineis 4—6 frequenter interruptis saturate fuscis picta, lineis transversis elevatis confertis sculpta, anterius concentrice substriata; spira subelongata, subcurvilinearis; anfr. superst. 5 convexi; sutura bene impressa; apertura ovalis, superne acutiuscula; perist. simplex, modice expansum et reflexum, superne minute auriculatum; umbilicus parvus. — Operc.? — Diverg. media 30°; long. 0,55; lat. max. 0,28; lat. min. 0,25 poll. (Ad.)

Cyclostoma Griffithianum Adams Contrib. to Conch. N. 6. p. 93. *)
Cistula? Griffithiana Pfr. Consp. N. 386.

Habitat in insula Jamaica.

§. 3.

432 8. **C. Gruneri Pfr.**

T. perforata, ovato-oblonga, truncata, tenuissima, spiraliter confertim et subtiliter striata, lineis longitudinalibus confertissimis sub lente decussata, pallidissime cornea; anfr. superst. 4 convexi, ultimus infra peripheriam interrupte fusco-cingulatus, juxta perforationem apertam fusco-maculatus; sutura mediocris, subsimplex; apertura subovalis; perist. duplicatum: internum rectum, acute porrectum, externum limbum latum, concaviusculum, ad anfr. penultimum interruptum, utrinque confertim radiato-striatum formans. — Operc. normale. — Long. 21, diam. 11 mill. Ap. 7½ mill. longa. (Mus. Cuming. et Gruner.)

Cyclostoma Gruneri Pfr. in Zeitschr. f. Mal. 1846. p. 47.
— — *Chemn.* ed. II. N. 73. p. 79. t. 10. f. 28. 29.

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*) Shell ovate-conic, much clongated: with four to six spiral frequently interrupted lines of dark brown, on a ground of very pale reddish brown between, — and whitish on the summits of — the transverse ridges: with crowded fine transverse raised lines; anteriorly with feeble concentric striae: spire rather long, with the outlines moderately curvilinear: apex truncate with the loss of — whorls: whorls remaining five, convex, with a well impressed suture: aperture ovate, rather acute above: peritreme simple, moderately expanded and reflected, minutely auriculate above: umbilicus small. (Adams l. c.)

Cistula? Gruneri Gray Catal Cycloph. p. 59. N. 11.
— — *Pfr.* Consp. N. 387.

Habitat Honduras.

9. **C. pallida Pfr.** 433

T. perforata, ovato-turrita, truncata, tenuis, lineis elevatis spiralibus et confertissimis longitudinalibus (hic illic irregularibus, subconfluentibus) minute decussata, pallide cornea, lineolis rufis interruptis obsolete picta; sutura profunda, subsimplex; anfr. superst. 4—4½ convexi, ultimus rotundatus; apertura verticalis, ovali-subcircularis; perist. duplex: internum album, porrectum, expansiusculum, externum dilatatum, horizontaliter patens, concentrice striatum, anfractui penultimo breviter adnatum, margine sinistro angustiore. — Operc. *C. catenatae*, distinctius oblique striatum. — Long. 17½, diam. 8½ mill. Ap. 5 mill. longa, 4½ lata. (Coll. Nr. 190.)

Cyclostoma pallidum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 314. t. 41. f. 3. 4.
Cistula pallida Pfr. Consp. N. 388. p. 66.
β. Testa minore, spira integra, anfr. 7; long. 18, diam. 8 mill.
Cyclostoma pallidum var. Chemn. l. c. t. 41. f. 5. 6.

Habitat Almendares prope Havana (Morelet).

10. **C. Küsteri Pfr.** 434

T. perforata, ovato-turrita, truncata, tenuis, sulcis spiralibus et costulis longitudinalibus confertis regulariter granulato-reticulata, subaspera, vix nitens, diaphana, fusco-cornea, lineis obsoletis rufis interruptis picta; spira convexo-turrita, late truncata; sutura profunda, simplex; anfr. superst. 4 convexi, ultimus angustior, rotundatus; apertura subverticalis, subcircularis; perist. duplex: internum breviter expansum, adnatum, externum campanulato-expansum, concentrice striatum, antice concavum, rufo-radiatum, superne angulatum, ad anfr. penultimum angustatum. — Operc.? — Long. 14, diam. 7 mill. Ap. 4 mill. longa. (Coll. Nr. 191.)

Cyclostoma Küsteri Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 316. t. 41. f. 9. 10.
Cistula? Küsteri Pfr. Consp. N. 389. p. 66.

Habitat Honduras (Dyson).

435 11. **C. radula Pfr.**

T. perforata, ovato-oblonga, truncata, tenuis, lineis elevatis spiralibus et costis acutis longitudinalibus subtiliter asperato-decussata, non nitens, pallide cornea, fasciis angustis, interruptis, rufis ornata; spira sursum attenuata, late truncata; sutura profunda, subsimplex; anfr. superst. 4 convexi, ultimus angustior, rotundatus; apertura verticalis, subcircularis; perist. duplex: internum continuum, vix porrectum, externum dilatatum, horizontaliter patens, concentrice striatum, ad anfr. penultimum subexcisum, margine sinistro fimbriato-inciso. — Operc. normale, nucleo parum excentrico. — Long. 14, diam. 7 mill. Ap. 4 mill. longa. (Mus. Cuming.)

Cyclostoma radula Pfr. in Proc. Zool. Soc. 1851. Jul.!
— — *Chemn.* ed. II. N. 319. t. 41. f. 13. 14.
Cistula radula Pfr. Consp. N. 390. p. 67.

Habitat Almendares prope Havana (Morelet).

§. 4.

436 12. **C.? sagittifera Adams.** †

T. perforata, elongata, ovato-conica, lineis minutis spiralibus elevatis et plicis confertissimis subtilibus decussata, albida, lineis numerosis angulosis saturate fuscis, inaequidistantibus et maculis irregularibus brunneis prope suturam notata; apex truncatus; spira subelongata, curvilinearis; anfr. superst. 4 convexi; apertura oblique ovalis; perist. duplex: internum crassum, modice productum, subreflexum, externum postice modice productum et non reflexum, caeterum magis productum, fere in planum aperturae reflexum, latere sinistro anterius sinuosum. — Operc.? — Diverg. media circa 45°; long. 0,96; lat. max. 0,63; lat. min. 0,55 poll. (Ad.)

Cyclostoma sagittiferum Adams in Ann. Lyc. N. York V. N. 2. p. 53 et Contr. to Conchol. N. 8. p. 137. *)
Cistula? sagittifera Pfr. Consp. N. 391.

Habitat in insula Jamaica (Chitty).

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*) Shell elongate, ovate conic: dingy white, with numerous inequidistant dark brown zigzag lines, with the four angles which are directed backwards arranged in spiral series on stripes of paler brown; with irregular transverse spots of dark brown next below the suture: with very crowded fine transverse ridges, which interrupt minute spiral elevated lines: apex truncate with the loss of — whorls: spire rather long, with the outlines curvilinear: whorls remaining after truncation four, quite convex, with a well impressed suture: aperture obliquely ovate, with two peritremes; of which the outer one is

13. C. Candeana Orbigny. 437

T. vix perforata, oblongo-turrita, decollata, tenuiuscula, lineis acute elevatis longitudinalibus et spiralibus anguste reticulata, fulvida, strigis et fasciis rufis interruptis ornata; sutura albo-crenata; anfr. superst. 5 convexi, regulariter accrescentes, ultimus basi striis spiralibus majoribus sulcatus; apertura verticalis, oblique ovalis; perist. album, duplicatum: internum non prominens, externum continuum, dilatatum, expansum, superne angulatum, ad anfr. penultimum subangustatum. — Operc. normale. — Long. 14, diam. 6 mill. Ap. intus 4 mill. longa, 3½ lata. (Coll. Nr. 192.)

Cyclostoma Candeana Orb. Moll. Cub. I. p. 261. t. 22. f. 15—17. *)
— *Candeanum Sow.* Thes. N. 151. p. 145. t. 31. f. 283. 284. **)
— *truncatum Pfr.* in Zeitschr. f. Malak. 1847. p. 105. Nec Wiegm.
— — *Chemn.* ed. II. N. 121. p. 118. t. 14. f. 20. 21.
Cistula truncata Gray Catal. Cycloph. p. 58. N. 7.
— *Candeana Pfr.* Consp. N. 392.

Habitat in insula Cuba; frequens circa Matanzas.

Obs. Variat magnitudine. Specimina (rara) non truncata anfractus 8½ exhibent, apicemque obtusum.

14. C.? pauperata Adams. † 438

T. subperforata, perelongata, gracilis, conica, longitudinaliter rudissime striata, colore . . .; sutura simplex, modice

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moderately produced and not reflected posteriorly, but in the rest part is well produced, reflected nearly into the plane of the aperture, sinuous on the left side anteriorly; inner peritreme thick, moderately produced, slightly reflected: umbilicus very narrow, extending through the truncate summit. (Adams l. c.)

*) T. elongata, conica, crassa, subumbilicata, albida, transversim sulcata, longitudinaliter striato-lamellosa; spira elongata, conica, apice acuminata (adulta truncata); anfr. 7 convexis; suturis irregulariter lamelloso-crenulatis; apertura ovali; labro crasso, bipartito, undulato, reflexo. — Long. 16, diam. 7 mill. — Coquille allongée, épaisse, légèrement ombiliquée, marquée, en travers, de sillons espacés, réguliers, avec lesquelles viennent se croiser des lames irrégulières saillantes. Spire allongée, conique, à sommet acuminé, tronqué dans l'âge adulte; le nombre de tours de spire reduit alors à 5—6 convexes, séparés par des sutures crénelées par la suite des lames longitudinales, le dernier tour toujours contigu. Bouche ovale, entourée de bords bilobés, dont le plus extérieur est ondulé, épaissi et réfléchi en dehors. (Orb. l. c)

**) T. oblongo-turrita, tenui, decussata, fulvo-rufescente, punctulis castaneis ordinatis; apice decollato; anfr. 4 subrotundatis, sutura crenulata; apertura circulari, postice subacuminata; peritremate duplici, externo latiusculo, reflexo, latere umbilicali angustiori, umbilico parvo. (Sow. l. c.)

impressa; spira fere-rectilinearis; apex truncatus; anfr. superst. 5; apertura ovato-orbicularis; perist. duplex: internum subporrectum, externum subexpansum, concavum, acutum, utraque lateris sinistri extremitate in angulum productum et inflexum. — Diverg. media 28°; long. 0,58; lat. max. 0,26; lat. min. 0,2 poll. (Ad.)

Cyclostoma pauperatum Adams Contrib. to Conch. N. 1. p. 13. *)
Cistula? pauperata Pfr. Consp. N. 393.

Habitat in insula Jamaica.

439 15. **C.? bilabris Menke.**

T. subimperforata, ovato-oblonga, decollata, solida, striis elevatis longitudinalibus et spiralibus argute decussata, albida vel fulvescens; anfr. superst. 4—5 convexiusculi, ultimus basi sulcis concentricis validioribus notatus; apertura verticalis, oblique ovalis; perist. duplicatum: internum breviter porrectum, externum incrassatum, breviter patens, superne angulatum, album vel rufo-nigricans. — Operc.? — Long. 13½, diam. 6½ mill. Ap. 6 mill. longa. (Mus. Cuming.)

Cyclostoma bilabre Menke Moll. Nov. Holl. p. 8. N. 18. **)
— — *Chemn.* ed. II. N. 45. p. 52. t 6. f. 22. 26.
— *rufilabrum Beck* mss. *Sow.* Thes. N. 45. p. 106. t. 24. f. 61. ***)
— — *Pot.* et *Mich.* Gal. Douai I. p. 241. t. 24. f. 20. 21?
Cistula rufilabris Gray Catal. Cycloph. p. 59. N. 9.
— ? *bilabris Pfr.* Consp. N. 394.

β. Testa minore; long. 10½, diam. 5¾ mill.; ap. intus 3¾ mill. longa. (Mus. Menke.)

Habitat in ora orientali Novae Hollandiae (Lehmann, Menke); St. Croix? (Beck, Sowerby.)

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*) Shell very elongate and slender, conic; color —?; very coarsely striated transversely, not crenulated in the suture, spiral lines wanting; spire with nearly rectilinear outlines; apex truncate with the loss of three? whorls; five whorls remaining, with a moderately impressed suture; aperture ovate-orbicular; inner peritreme on the right side less elevated above the outer one, which is moderately expanded, concave, sharp, produced into an angle and reflected at each extremity of the left side; umbilicus very small, concealed by the lip. (Adams l. c.)

**) T. ovato-conica, apice decollata, imperforata, solidiuscula; anfr. 5 convexis, porcis longitudinalibus transversisque densis eleganter texatis; perist. duplici: externo reflexo. — Long. 4, 5; lat. 2, 5 lin. (Menke l. c.)

***) T. oblonga, cylindracea, fulvescente, apice decollato; anfr. 4—5 spiraliter sulcatis, sulcis decussato-crenulatis, lateribus subrotundatis; sutura inconspicua; apertura elliptica; peritremate incrassato, subexpanso, nigricante. (Sow. l. c.)

§. 5.

16. C.? lugubris Pfr. 440

T. perforata, turrito-oblonga, solida, truncata, liris obtusis spiralibus, costulisque submembranaceis illas transgredientibus sculpta, fuscula, violaceo-fusco late unifasciata; spira parum attenuata; sutura confertim et subacute fasciculato-crenata; anfr. superst. 5 convexiusculi, ultimus antice breviter solutus, subdescendens, dorso compressus, basi distantius spiraliter liratus; apertura verticalis, oblique ovalis; perist. subsimplex, continuum, margine sinistro breviter, reliquis paulo latius expansis, subundulatis. — Operc.? — Long. 16, diam. fere 7 mill. Ap. oblique 5 mill. longa, 4 lata. (Mus. Cuming.)

Cyclostoma lugubre Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 317. t. 41. f. 11. 12.
Cistula? lugubris Pfr. Consp. N. 395. p. 67.

Habitat in insula Jamaica.

17. C.? mordax Adams. 441

T. subperforata, oblongo-pupaeformis, tenuis, truncata, liris distantibus, obtusis, spiralibus, striisque longitudinalibus confertis, illas superantibus, sculpta, fuscula, punctis et lineis interruptis rufis ornata; sutura obsolete crenulata; anfr. superst. 5 modice convexi, ultimus angustior, antice breviter solutus; apertura verticalis, oblique ovalis, superne subangulata; perist. simplex, breviter expansiusculum, in angulo supero subdilatatum. — Operc.? — Long. 15, diam. 6½ mill. Ap. 4½ mill. longa. (Coll. Nr. 193.)

Cyclostoma mordax Adams Contrib. to Conch. N. 1. p. 12. *)
— — *Chemn.* ed. II. N. 373. t. 46. f. 31. 32.
Cistula? mordax Pfr. Consp. N. 396.

Habitat in insula Jamaica.

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*) Shell much elongated; pale brown, often at the summit deep reddish brown, with several spiral series of very small deep brown spots, of which those next below the suture are the larger, and a somewhat interrupted band of the same around the anterior extremity; with closely set much elevated sharp transverse lamellae, which are slightly crenulated by numerous spiral impressed lines, of which one next below the suture is more deeply impressed; spire with scarcely convex outlines; apex truncate with the loss of nearly three whorls; nearly five quite convex whorls remaining, with a well impressed suture; last whorl a little detached from the penult whorl next the aperture; aperture ovate-orbicular; lip simple, slightly spread, reflected nearly into the plane of the aperture, more developed at the angle

442 ### 18. C.? lineolata Lamarck.

T. subperforata, oblongo-conica, truncata, longitudinaliter confertim plicato-striata, obsolete decussatula, fulvido-alba, lineolis rufis longitudinalibus, flexuosis picta; sutura mediocris, subremote et irregulariter crenulata; anfr. superst. 5 convexiusculi, ultimus ante solutus, superne carinatus, basi concentrice et confertim sulcatus; apertura ovalis; perist. continuum, undique breviter expansum, superne angulatum. — Operc.? — Long. 16, diam. 7½ mill. Ap. intus 5⅔ mill. longa, 4¾ lata. (Coll. Anton. et Menke.)

Cyclostoma lineolata Lam. Hist. VI. p. 147. N. 19. Ed. Desh. VIII. p. 358. N. 18. *)
— — *Deless.* Recueil t. 29. f. 8.
— *lineolatum Chemn.* ed. II. N. 41. p. 49. t. 6. f. 27. 28.
Cistula lineolata Gray Catal. Cycloph. p. 58. N. 5.
— ? — *Pfr.* Consp. N. 397.

Habitat in insula St. Vincentii Indiae occidentalis.

Obs. Dubium mihi remanet, an species descripta revera sit Lamarckiana?

443 ### 19. C. Thoreyana Philippi.

T. perforata, turrita, subtruncata, tenuis, longitudinaliter confertim plicata, diaphana, corneo-albida, lineis concentricis rufis interruptis picta; anfr. 6½ perconvexi, ultimus longe solutus, superne angulatus; apertura verticalis, ovalis; perist. subduplex, tenue, continuum, margine dextro breviter expanso. — Operc. normale, nucleo parum excentrico. — Long. 14, diam. 6½ mill. Ap. 4½ mill. longa, 3⅓ lata. (Coll. Philippi.)

Cyclostoma Thoreyanum Phil. in Zeitschr. f. Mal. 1851. p. 31.
— — *Chemn.* ed. II. N. 351. t. 43. f. 28—30.
Cistula Thoreyana Pfr. Consp. N. 398.

Habitat in Bolivia.

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above, and more advanced in the middle of the right side; umbilicus very small. — Mean divergence 28°; length 0,58; greatest breadth 0,32; least breadth 0,25 inch. (Adams l. c.)

*) T. ventricoso-conica, subperforata, longitudinaliter tenuissimeque striata, griseo-fulva, lineis albis interruptis cincta; lineolis rufo-fuscis longitudinalibus flexuosis; anfr. 7 convexis; labro margine albo, reflexo. — Long. 6½'''. (Lam. l. c.)

§. 6.

20. C.? rostrata Pfr. 444

T. perforata, ovato-turrita, truncata, tenuis, longitudinaliter confertim filoso-plicata (plicis singulis irregulariter positis validioribus, interstitiis subtiliter decussatis), corneo-albida, lineolis longitudinalibus undulatis fuscis picta; sutura levis, denticulata; anfr. superst. $4^1/_2$ parum convexi, ultimus antice breviter solutus; apertura verticalis, angulato-ovalis; perist. duplex: internum continuum, expansiusculum, externum dilatatum, juxta anfr. penultimum subexcisum, superne in auriculam recurvatam productum, caeterum rectangule patens. — Operc.? — Long. 18, diam. $8^2/_3$ mill. Ap. intus 6 mill. longa, 5 lata. (Mus. Cuming. et Coll. Nr. 194.)

Cyclostoma rostratum Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 349. t. 43. f. 26. 27.
Cistula? rostrata Pfr. Consp. N. 399. p. 72.

Habitat . . .?

21. C.? ambigua Lamarck. † 445

T. ovato-conoidea, obtusa, perforata, tenuis, pellucida, albida, lineolis luteis interruptis transversim seriatis, striis longitudinalibus prominentibus; labrum margine reflexum, valde dilatatum. — Long. 7'''. (Lam.)

Cyclostoma ambigua Lam. Hist. VI. p. 145. N. 11. Ed. Desh. VIII. p. 357. *)
— *interrupta Deless.* Recueil t. 29. f. 2.
— *ambiguum Chemn.* ed. II. N. 169. p. 178. t. 29. f. 7—9. (ex Lam. et Deless.)
Choanopoma ambiguum Gray Catal. Cycloph. p. 50. N. 9.
Cistula? ambigua Pfr. Consp. N. 400.

Habitat . . .? See addenda 445a

22. C.? bilabiata Orbigny? 446

T. vix perforata, turrita, tenuiuscula, lineis elevatis spiralibus confertioribusque longitudinalibus reticulata, vix sericea, fusco-violacea; spira regulariter attenuata, integra; sutura minute crenulata; anfr. 6 convexiusculi, ultimus angustior,

*) Il est moins ventru que le précédent (*C. interrupta*), et s'en distingue en outre par ses stries longitudinales bien saillantes. (Lam. l. c.)

antice solutus; apertura verticalis, rotundato-ovalis; perist. duplex: internum breviter porrectum, externum subaequaliter et horizontaliter patens, superne anguloso-dilatatum. — Operc.? — Long. 13, diam. 6 mill. Ap. 4 mill. longa. (Mus. Cuming.)

Cyclostoma bilabiata Orb. Moll. Cub. I. p. 258. t. 22. f. 3–5. *)
— *Dorbignyanum Petit* in Journ. Conch. 1850. I. p. 46.
— *bilabiatum Chemn.* ed. II. N. 322. t. 43. f. 31. 32.
Choanopoma? bilabiatum Gray Catal. Cycloph. p. 52. N. 22.
Cistula bilabiata Pfr. Consp. N. 401.

Habitat in interiore insulae Cubae.

447 **23. C. Grateloupi Pfr.**

T. perforata, oblonga, pupaeformis, truncata, tenuiuscula, spiraliter confertim sulcata et costis longitudinalibus, confertis, non interruptis sculpta, diaphana, parum nitida, corneo-albida, fasciis strigatim interruptis castaneis ornata; spira sursum parum attenuata, late truncata; sutura levis, crenata: crenis superne minutis, confertis, in anfr. ultimis fasciculatim dilatatis, obtusis; anfr. superst. 4 vix convexiusculi, ultimus antice breviter solutus, basi rotundatus; apertura verticalis, ovalis; perist. duplex: internum breviter expansum, adnatum, externum campanulato-patens, ruforadiatum, superne cucullatim elevatum, tum emarginatum et anfractui penultimo adnatum. — Operc. normale. — Long. 16, diam. 7 mill. Ap. intus 5 mill. longa. (Coll. Nr. 195.)

Cyclostoma Grateloupi Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 309. t. 40. f. 28—31.
Cistula Grateloupi Pfr. Consp. N. 402. p. 67.

β. Testa minore, crenulis suturae confertis, acutis; long. 12, diam. 5½ mill.

Habitat Yucatan; var. *β* in India occidentali?

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*) T. oblongo-conica, tenui, albida, rosea, decussatim striato-lamellata, subumbilicata; spira elevata, apice acuminato; anfr. 5 convexis; suturis excavatis, crenulato-lamellatis, apertura rotunda, bilabiata; labro interno acuto, recto, altero reflexo, lamelloso. — Long. 14, diam. 9 mill. — Coquille marquée en long de stries fines, saillantes, lamelleuses, avec lesquelles viennent se croiser en travers des sillons régulièrement espacés. Spire conique, élevée, à sommet souvent tronqué, composée de 5 tours, croissant régulièrement, dont le dernier est près de la bouche complètement detaché; les stries viennent former des saillies inégales et comme crénelées sur les sutures. Bouche entourée de deux bords distincts, l'extérieur tranchant placé en dehors à une petite distance du second et refléchi, très mince, très elargi à la partie inférieure de la bouche, qu'il unit au retour de la spire. Parait être peu coloré; son sommet est d'un beau rouge de carmin. (Orb. l. c.)

24. C. **Largillierti Pfr.** 448

T. perforata, oblonga, decollata, tenuiuscula, costis confertis, argute elevatis longitudinaliter sculpta, interstitiis lineis spiralibus sub lente decussata, fulvida, maculis fuscis, seriatis obsolete ornata; sutura profunda, denticulata; anfr. superst. 4 convexi, ultimus antice breviter solutus; apertura verticalis, oblique subovalis; perist. duplex: internum simplex, externum breviter expansum, marginibus superne angulatim junctis. — Operc. normale. — Long. $12\frac{1}{2}$, diam. 6 mill. Ap. intus 4 mill. longa. (Coll. Nr. 196.)

Cyclostoma Largillierti Pfr. in Zeitschr. f. Malak. 1846. p. 46.
— — *Chemn.* ed. II N. 125. p. 121. t. 14. f. 26. 27.
Choanopoma Largillierti Gray Catal. Cycloph. p. 51. N. 14.
Cistula Largillierti Pfr. Consp. N. 403.

Habitat Yucatan (Largilliert).

25. **C.? fallax Pfr.** 449

T. rimata, oblongo-turrita, truncata, tenuis, spiraliter obtuse lirata, lineis longitudinalibus confertioribus (octava vel decima quavis sub lente validioribus) decussata, non scabra, vix nitidula, albida, lineis flexuosis, interruptis fulvis picta; spira subconvexo-turrita; sutura minute fasciculato-crenata; anfr. superst. 4—$4\frac{1}{2}$ convexiusculi, ultimus rotundatus, infra medium fascia fulva ornatus, antice longe solutus, circa rimam umbilicalem vix spiraliter sulcatus; apertura subverticalis, ovalis; perist. album, duplex: internum expansiusculum, incumbens, externum breve, undique subaequaliter patens, superne angulatum. — Operc.? — Long. 14, diam. $6\frac{1}{2}$ mill. Ap. intus $4\frac{1}{2}$ mill. longa, $3\frac{2}{3}$ lata. (Mus. Cuming.)

Cyclostoma fallax Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 369. t. 45. f. 21. 22.
Cistula? fallax Pfr. Consp. N. 404. p. 68.

Habitat . . .?

Obs. Haec species *C. lineolatae Lam.* valde affinis videtur.

26. **C.? sericina Adams.** † 450

T. perforata, valde elongata, conica, lineis longitudinalibus obtusis subtiliter elevatis confertim sculpta, sericea, alba, seriebus 4 macularum fuscarum et quinta basali minus distincta picta; spira modice curvilinearis; sutura profundiuscula; anfr. superst. $4\frac{1}{2}$ convexi; apertura breviter soluta; perist. duplex: internum indistinctum, externum modice expansum,

latere sinistro non reflexum. — Diverg. media 38°; long. 0,62; lat. max. 0,36; lat. min. 0,26 poll. (Ad.)

Cyclostoma sericinum Adams Contrib. to Conch. N. 9. p. 156. *)
Cistula? sericina Pfr. Consp. N. 405.

Habitat New-Hope, Westmoreland insulae Jamaicae.

451 27. **C.? Campbellii Adams.** †

T. perforata, elongato-conica, lamellis numerosis longitudinalibus, modice elevatis munita, colore . . .?; spira vix curvilinearis, apice integra, acuta; anfr. $6^1/_2$ convexi, sutura profundiuscula juncti, ultimus antice longe solutus, dorso angulatus; apertura fere circularis; perist. duplex: internum modice productum, externum parvum, in planum aperturae expansum. — Diverg. media 40°; long. 0,36; lat. max. 0,2; lat. min. 0,16 poll. (Ad.)

Cyclostoma Campbellii Adams Contrib. to Conch. N. 9. p. 154. **)
Cistula? Campbellii Pfr. Consp. N. 406.

Habitat Westmoreland insulae Jamaicae.

§. 7.

452 28. **C.? confusa Pfr.**

T. vix perforata, oblongo-turrita, decollata, solida, carneofusca, cingulis spiralibus confertis et costulis longitudinalibus percurrentibus, confertissimis clathrata; sutura confertim albodenticulata; anfr. 5 convexiusculi, regulariter accrescentes, ultimus antice breviter solutus; apertura verticalis, oblique

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*) Shell much elongated, conic: silky white, with four spiral series of brown dots, of which three appear on the spire; around the umbilicus is a fifth series less distinct: with crowded regular transverse obtuse fine raised lines: spire with the outlines moderately convex, truncated with the loss of two whorls; whorls remaining four and one-half, quite convex, with a rather deep suture: aperture slightly detached from the penult whorl; inner peritreme indistinct; outer peritreme moderately expanded, except on the left side, which is not reflected: umbilicus small. (Adams l. c.)

**) Shell elongate conic: color — ? with numerous transverse moderately elevated lamellae: apex acute: spire not truncated, with the outlines but little convex: whorls six and one-half, quite convex, with a rather deep suture; last whorl at the end much detached from the penult whorl, and angular above: aperture nearly circular, with the inner peritreme moderately produced, and the outer peritreme small and expanded into the plane of the aperture; umbilicus small. (Adams l. c.)

ovalis, intus fusca, nitida; perist. duplex: internum fusculum, vix prominens, externum undique late expansum, marginibus superne angulatim junctis, columellari undulato-crenulato. — Operc.? — Long. 18, diam. $7^1/_2$ mill. Ap. intus 5 mill. longa, 4 lata. (Mus. Gruner.)

Cyclostoma confusum Pfr. mss.
— *Delatreanum Pfr.* in Chemn. ed. II. N. 122. p. 119. t. 14. f. 22. 23. Nec Orb.
Cistula? confusa Pfr. Consp. N. 407.

Habitat . . .?

29. **C. Sauliae Sowerby.** 453

T. perforata, oblongo-subturrita, plerumque decollata, tenuis, longitudinaliter confertim plicato-striata, albida, fusco seriatim et obsolete punctata; sutura submarginata; anfr. 5—8 rotundati, ultimus teres, antice subsolutus; apertura verticalis, fere circularis, intus concolor, nitida; perist. duplicatum: internum album, vix prominens vel subadnatum, externum breviter expansum, prope anfr. penultimum angustatum, utrinque albo-lingulatum, marginibus dextro et basali crenulatis, albo brunneoque articulatim pictis. — Operc. normale, nucleo parum excentrico. — Long. 14 (testae integrae 16), diam. 7 mill. Ap. intus 4 mill. longa. (Coll. Nr. 197.)

Cyclostoma Sauliae Sow. Thes. N. 152. p. 145. t. 28. f. 189. *)
— — *Chemn.* ed. II. N. 80. p. 85. t. 10. f. 24. 25.
Choanopoma Sauliae Gray Catal. Cycloph. p. 51. N. 10.
Cistula Sauliae Pfr. Consp. N. 408.

Habitat in insula Jamaica (Adams Contrib. p. 108.)

30. **C.? trochlearis Pfr.** 454

T. perforata, oblongo-turrita, truncata, costis filaribus spiralibus et longitudinalibus subregulariter clathrata, haud nitens, pallide fuscula, punctis rufis subseriatis variegata; spira elongata, trochlearis, late truncata; sutura profunda, simplex; anfr. superst. 5 perconvexi, ultimus antice subsolutus; aper-

*) T. pyramidali, subturrita, tenui, eleganter striata, pallescente, brunneo articulatim spiraliter lineata, apice decollato; anfr. 5 rotundatis; sutura distincta; apertura circulari; peritremate duplici, interno tenui paululum levato, externo latiore reflexo, latere externo crenulato, albo brunneoque articulatim picto, postice anticeque expanso, prope ultimum anfractum angusto; umbilico mediocri. — Ind. occid. (Sow. l. c.)

tura verticalis, subcircularis; perist. duplex: internum vix porrectum, externum horizontaliter expansum, superne in rostrum recurvatum dilatatum, ad anfr. penultimum breviter interruptum, latere sinistro inciso-crenulatum. — Operc.? — Long. 14, diam. 6 mill. Ap. 4 mill. longa. (Mus. Cuming.)

Cyclostoma trochlea Pfr. in Proc. Zool. Soc. 1851. Jul. Nec Bens.
— *trochleare Pfr.* in Chemn. ed. II. N. 315. t. 41. f. 7. 8.
Cistula? trochlearis Pfr. Consp. N. 409. p. 68.

Habitat . . .?

455 31. **C. Shepardiana Adams.**

T. perforata, oblongo-turrita, breviter truncata, tenuiuscula, lineis obtuse elevatis spiralibus, costulisque longitudinalibus confertissimis (quinta vel septima quavis validioribus) illas transgredientibus sculpta, cinnamomea; spira regulariter attenuata; sutura costularum fasciculis crenata; anfr. superst. 5 convexi, ultimus antice longe solutus, deflexus, dorso serrato-carinatus, basi rotundatus; apertura subverticalis, ovalis; perist. aurantiacum, duplex: internum breviter expansum, externum angulatim patens, undulatum, superne anguloso-dilatatum. — Operc. normale. — Long. 12, diam. 5½ mill. Ap. 3½ mill. longa, 3 lata. (Coll. Nr. 198.)

Cyclostoma Shepardianum Adams Contrib. to Conch. N. 6. p. 92. *)
— — *Chemn.* ed. II. N. 283. t. 38. f. 40—42.
Cistula Shepardiana Pfr. Consp. N. 410

β. Testa albida, seriatim castaneo-punctata; perist. albido, castaneo-radiato:
Cyclostoma Shepardianum var. Chemn. l. c. f. 43—45.

Habitat in insula Jamaica.

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*) Shell long ovate-conic: color very various, from horn color to reddish brown or slate color, with paler and darker lines alternating, with the lip red or yellowish white: with very closely set fine raised lines, which are traversed and partially interrupted by numerous finely waved or zigzag spiral striae; with the upper ends of the transverse lines somewhat fascicled: spire long, with the outlines a little curvilinear: apex truncate, with the loss of — whorls: remaining whorls five to five and one-half, very convex, with a deep suture; the last whorl detached at its extremity from the penult whorl: aperture ovate-orbicular: inner peritreme moderately produced; outer peritreme moderately expanded, auriculate above, almost wanting on the left side: umbilicus very narrow, extending through the truncate apex. Mean divergence 25 — 35°; length 0,32 — 57; greatest breadth 0,18 — 0,31; least breadth 0,13 – 0,26 inch. (Adams l. c.)

32. C.? dislocata Baird. 456

T. anguste perforata, turrito-oblonga, truncata, longitudinaliter confertim plicata, albida, seriebus punctorum ruforum picta; anfr. superst. $4^1/_2$ convexi, ultimus antice compressus, longe solutus, dorso subcarinatus; apertura verticalis, ovalis; perist. duplex: internum vix porrectum, externum angulatim reflexum, superne subauriculatum, margine sinistro crenato-incisum, album, rufo maculatum. — Operc.? — Long. 10, diam $5^1/_2$ mill. Ap. intus 3 mill. longa. (Mus. Brit.)

Cyclostoma dislocatum Baird mss. in Mus. Brit.
Choanopoma dislocatum Gray Catal. Cycloph. p. 51. N. 11.
Cistula? dislocata Pfr. Consp. N. 411.

Habitat in insula Jamaica (Barham Zincke).

33. C. scabrosa Humphrey. 457

T. perforata, oblongo-turrita, truncata, liris obtusis spiralibus haud continuis, plicisque longitudinalibus confertissimis (4—7 fasciculatim collectis) sculpta, cinnamomea, opaca; anfr. superst. $4^1/_2$—5 convexi, ultimus antice breviter solutus; sutura fasciculato-crenata; apertura subverticalis, ovalis; perist. lateritium, duplex: internum expansiusculum, externum patens, superne angulatum, margine basali et sinistro eleganter crenulatum. — Operc. normale. — Long. 12, diam. $5^1/_2$ mill. Ap. intus 4 mill. longa. (Mus. Brit.)

Cistula scabrosa Humphr. mss. ex Sow.
— — *Pfr.* Consp. N. 412.
Cyclostoma rugulosum Sow. Thes. N. 155. p. 146. t. 28. f. 166. 167. *)
Nec Pfr., nec Sow. in Proc. 1843.
Choanopoma scabrosum Gray Catal. Cycloph. p. 51. N. 12.

Habitat Providence Island (Sow.), Jamaica (Gray).

34. C. cinclidodes Pfr. 458

T. subimperforata, ovato-oblonga, truncata, solida, lineis spiralibus elevatis et longitudinalibus paulo confertioribus nodoso-clathrata, opaca, fulvido- vel griseo-albida, lineolis interruptis rufis sparse notata; sutura fasciculatim crenata; anfr. superst. 5 convexiusculi, ultimus antice breviter solutus,

*) T. cylindraceo-subpyramidali, apice decollato; anfr. 4 7 subventricosis, decussatis, scabris, margine superiori crenulato; sutura distincta; apertura elliptica, superne angulata, peritremate disjuncto, reflexo, angustiori, umbilico minimo (Sow. l. c.)

basi distinctius spiraliter sulcatus; apertura vix obliqua, angulato-ovalis; perist. album, duplex: internum porrectum; externum brevissime patens, undulatum, superne in angulum productum. — Operc. cartilagineum, lamina tenui testacea, sublibera extus munitum, nucleo parum excentrico. — Long. 11, diam. 5 mill. Ap. $3^1/_2$ mill. longa, $2^2/_3$ lata. (Coll. Nr. 199.)

Cyclostoma cinclidodes Pfr. in Proc. Zool. Soc. 9 Mart. 1852.
— — *Chemn.* ed. II. N. 894. t. 47. f. 25. 26.

Habitat in insula Haiti (Sallé).

XXV. Chondropoma Pfr.

Operculum ovale, subcartilagineum, planum, anfractibus paucis, rapide accrescentibus, nucleo plerumque valde excentrico. Testa oblongo-turrita, saepe truncata, rarius globoso-turbinata; apertura ovalis; peristoma simplex, vel magis minusve duplicatum, subrectum, expansiusculum vel late reflexum.

Chondropoma Pfr. in Zeitschr. f. Malak. 1847. p. 109; 1851. p. 172; Consp. p. 44.
— *Gray* Catal. Cycloph. p. 55.
Cyclostomatis spec. *Auctt.*

Conspectus specierum.

A. Peristomate simplice			
1. tenui			
a. late expanso	§. 1.	Nr.	1.
b. breviter vel vix expanso . .	§. 2.	—	2—10.
2. subincrassato brevi	§. 3.	—	11—15.
B. Peristomate subduplicato . . .	§. 4.	—	16—20.
C. Peristomate duplicato.			
1. Umbilico aperto.			
a. Limbo externo brevi . . .	§. 5.	—	21—28.
b. Limbo externo late expanso .	§. 6.	—	29—30.
2. Umbilico subclauso	§. 7.	—	31—33.

§. 1.

459 **1. Ch. magnificum Sallé.**

T. perforata, ovato-conica, tenuis, longitudinaliter plicato-striata, diaphana, parum nitens, albida, taeniis varie interruptis

castaneis, media latissima ex strigis angulatis formata, ornata; spira tumida, apice subtruncata; sutura simplex; anfr. superst. 5 convexiusculi, ultimus rotundatus; apertura verticalis, ovalis; perist. simplex, nitidum, album, castaneo-maculatum, superne cucullatim dilatatum, ad anfr. penultimum breviter adnatum, angustatum, ad perforationem sinuatum, tum in linguam patentem dilatatum, margine dextro et basali late fornicato-reflexis. — Operc. cartilagineum, planum, pallide corneum. — Long. 29, diam. 15 mill. Ap. 11 mill. longa, 8 lata. (Mus. Cuming.)

Cyclostoma magnificum (Sallé mss.) *Pfr.* in Proc. Zool. Soc. 9 Mart. 1852.
— — *Chemn.* ed. II. N. 389. t. 47. f. 20. 21.

β. Unicolor alabastrinum.
Cyclostoma magnificum var. Chemn. l. c. f. 22.

Habitat in insula Haiti (Sallé).

Obs. Formatio peristomatis persimilis figurae duplo auctae *C. ambiguae Lam.* (in Deless. Recueil t. 29. f. 2, nomine *C. interruptae.*)

§. 2.

2. Ch. plicatulum Pfr. 460

T. subperforata, oblongo-turrita, integra vel breviter truncata, tenuis, longitudinaliter confertim plicatula, diaphana, corneo-albida, fasciis latiusculis castaneis articulatis vel strigatim interruptis ornata; anfr. $7\frac{1}{2}$ convexi, regulariter accrescentes, ultimus breviter solutus, rotundatus, circa perforationem obsoletam spiraliter sulcatus; apertura verticalis, oblique elliptica; perist. simplex, vix expansiusculum, superne angulatum. — Operc. normale, fusculum. — Long. 20, diam. $9\frac{1}{2}$ mill. Ap. 7 mill. longa, $5\frac{1}{2}$ lata. (Coll. Nr. 200.)

Cyclostoma plicatulum Pfr. in Zeitschr. f. Malak. 1846. p. 48.
— — *Chemn.* ed. II. N. 77. p. 82. t. 10. f. 14. 15. t. 28. f. 12. 13.
Chondropoma plicatulum Pfr. in Zeitschr. f. Malak. 1847. p. 109.
— — *Gray* Catal. Cycloph. p. 56. N. 3.
— — *Pfr.* Consp. N. 413.

β. Testa minore, fasciis articulatis angustis, long. $16\frac{1}{2}$, diam. 8 mill. Ap. $6\frac{1}{2}$ mill. longa, $5\frac{1}{2}$ lata.

Habitat Puerto Cabello Venezuelae.

3. Ch. Salleanum Pfr. 461

T. subperforata, turrito-oblonga, vix truncatula, tenuis, striis elevatis confertis regulariter clathrata, non nitens, fusculo-

albida, maculis castaneis subseriatis adspersa; spira conico-turrita; sutura confertissime crenulata; anfr. 6 convexiusculi, ultimus antice vix solutus, infra medium castaneo interrupte fasciatus; apertura ab axi paulo recedens, ovalis, superne subangulosa; perist. continuum, simplex, expansum, margine columellari subappresso, basali dilatato. — Operc. albidum. — Long. 21, diam. $9\frac{1}{2}$ mill. Ap. intus 7 mill. longa, 5 lata. (Coll. Nr. 201.)

Cyclostoma Salleanum Pfr. in Zeitschr. f. Malak. 1850. p. 78.
— — *Chemn.* ed. II. N. 266. t. 37. f. 13. 14.
Chondropoma Salleanum Pfr. Consp. N. 414.
β. Testa minore, anfr. 7, vertice obtusiusculo non truncato, perist. latius expanso; long. 17, diam. $7\frac{1}{2}$ mill.
Cyclostoma Salleanum var. Chemn. l. c. t. 37. f. 17. 18.

Habitat in insula Haiti (Sallé).

462 **4. Ch.? papyraceum Adams.**

T. vix perforata, ovato-turrita, truncata, tenuis, longitudinaliter confertissime plicata (interstitiis sub lente decussatulis), haud nitens, pallide fusca, strigis angulatis et undulatis castaneis picta; spira convexo-turrita; sutura confertim et acute denticulata; anfr. superst. 5 convexiusculi, ultimus supra basin late fasciatus; apertura verticalis, elliptica, intus concolor, nitida; perist. continuum, simplex, anfractui penultimo late adnatum, undique subaequaliter expansum, superne anguloso-superstructum. — Operc.? — Long. 20, diam. 9 mill. Ap. intus 7 mill. longa, medio 5 lata. (Coll. Nr. 202.)

Cyclostoma papyraceum Adams Contrib. to Conch. N. 6. p. 92. *)
— — *Chemn.* ed. II. N. 371. t. 46. f. 39. 40.
Chondropoma papyraceum Pfr. Consp. N. 415.

Habitat in insula Jamaica.

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*) Shell much elongated, ovate-conic: with dark brown irregular transverse bands, which are deeply and sharply undulated on the posterior side, and which are sometimes contracted into waving lines, on a ground of pale brown: thin; elegantly sculptured with very regular crowded striae; with the intervening ridges crossed by many microscopic spiral impressed lines; with a crowded sutural series of sharp crenulations: spire long, with the outlines moderately curvilinear: apex truncate with the loss of — whorls: a little more than five whorls remaining, with a moderately impressed suture: aperture ovate, rather large and spreading, a little modified by the penult whorl: peritreme single, scarcely reflected to the plane of the aperture, on the left side appressed to the penult whorl: umbilicus small, with strong spiral striae. Mean divergence 32°; length 0,82; greatest breadth 0,45; least breadth 0,33 inch. (Adams l. c.)

5. **Ch. Loweanum Pfr.** 463

T. perforata, ovato-turrita, saepe truncata, tenuiuscula, lineis elevatis spiralibus, confertioribusque longitudinalibus illas transgredientibus (quavis decima vel undecima plerumque validioribus) sculpta, albida, fusco marmorata et irregulariter strigata; sutura dense crenulata; anfr. 7 convexiusculi, 2 ultimi turgidi, ultimus antice solutus, dorso acute carinatus; apertura subobliqua, angulato-ovalis; perist. simplex, continuum, undique expansiusculum, superne angulatim productum. — Operc. normale, fusco-luteum. — Long. 17, diam. $8^1/_2$ mill. Ap. 6 mill. longa, $4^1/_2$ lata. (Mus. Cuming.)

Cyclostoma Loweanum (Chondropoma) Pfr. in Proc. Zool. Soc. 1852. 9 Mart.

— — *Chemn.* ed. II. N. 392. t. 47. f. 15. 16.

Habitat in insula Haiti (Sallé).

6. **Ch. eusarcum Pfr.** 464

T. subperforata, ovata, ventrosa, tenuiuscula, longitudinaliter confertissime plicata, vix nitida, diaphana, pallide isabellina, lineis interruptis rufis interdum cincta; spira convexo-conica, breviter truncata; sutura subsimplex; anfr. superst. 4 convexi, ultimus penultimum vix superans, antice brevissime solutus, basi liris nonnullis spiralibus sculptus; apertura vix obliqua, angulato-ovalis; perist. simplex, expansiusculum, marginibus superne in angulum acutum junctis, sinistro leviter arcuato. — Operc. normale. — Long. 13, diam. $7^1/_3$ mill. Ap. c. perist. $6^1/_2$ mill. longa, $4^2/_3$ lata. (Coll. Nr. 203.)

Cyclostoma eusarcum (Chondropoma) Pfr. in Proc. Zool. Soc. 1852. 9 Mart.

— — *Chemn.* ed. II. N. 395. t. 48. f. 1. 2.

Habitat in insula Haiti (Sallé).

7. **Ch. litturatum Pfr.** 465

T. vix subperforata, ovato-conica, non truncata, tenuiuscula, lineis impressis subtiliter decussata, nitidula, fusculo-albida, litturis elegantissimis castaneis strigatim picta, basi plerumque unifasciata; spira conico-turrita, integra, obtusa; sutura irregulariter crenulata; anfr. 7 parum convexi, ultimus paulo angustior, antice breviter solutus; apertura verticalis, angulato-ovalis; perist. simplex, rectum, margine columellari vix reflexiusculo. — Operc. flavo-albidum, pellucidum. —

Long. 16—17, diam. $7^{1}/_{2}$ mill. Ap. 6 mill. longa, 4 lata. (Coll. Nr. 204.)

Cyclostoma litturatum Pfr. in Zeitschr. f. Malak. 1850. p. 78.
— — *Chemn.* ed. II. N. 269. t. 37. f. 21. 22.
Chondropoma litturatum Pfr. Consp. N. 416.
β. Testa paulo majore, subtruncata, anfractu ultimo longius soluto.

Habitat in insula Haiti (Sallé).

466 8. **Ch. Cumanense Pfr.**

T. perforata, turrito-oblonga, truncata, tenuis, longitudinaliter confertim plicata, sericea, pellucida, corneo-lutescens, maculis castaneis fasciatim dispositis ornata; sutura plicis excurrentibus confertim subcrenata; anfr. superst. 5 subconvexi, ultimus basi rotundatus, antice breviter solutus, dorso carinatus; apertura subverticalis, ovalis, superne subangulata; perist. liberum, simplex, undique vix expansum. — Operc. *Ch. plicatuli.* — Long. 15, diam. $7^{1}/_{2}$ mill. Ap. $5^{1}/_{2}$ mill. longa, $4^{1}/_{2}$ lata. (Mus. Cuming.)

Cyclostoma Cumanense Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 320. t. 41. f. 18. 19.
Chondropoma Cumanense Pfr. Consp. N. 417. p. 68.

Habitat Cumana (Dyson).

467 9. **Ch. elongatum (Turbo) Wood.**

T. subperforata, oblongo-turrita, late truncata, solidiuscula, lineis subtilissimis filaribus confertim cincta, parum nitens, fulvida; sutura profunda; anfr. superst. $3^{1}/_{2}$—4 convexiusculi, ultimus rotundatus; apertura subverticalis, oblique ovalis, superne angulata; perist. continuum, breviter adnatum, vix expansiusculum, margine sinistro subduplicato, brevissime patente. — Operc.? — Long. $11^{1}/_{2}$, diam. 6 mill. Ap. oblique $4^{1}/_{2}$ mill. longa. (Coll. Nr. 205.)

Turbo elongatus Wood Ind. Suppl. t. 6. f. 10.
Cyclostoma elongatum Gray in Wood suppl. p. 36.
— — *Sow.* Thes. N. 50. p. 107. t. 24. f. 64. *)
Cistula elongata Gray Catal. Cycloph. p. 60. N. 14.

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*) T. oblongo-subpyramidali, decollata, pallide ferruginea; anfr. 4 spiraliter striatis, interstitiis decussatis; sutura simplici; apertura elliptica, superne subacuminata; peritremate tenui, minime reflexo; umbilico minimo. (Sow. l. c.)

Chondropoma elongatum Pfr. Consp. N. 418.
β? Costis spiralibus argutioribus. (Mus. Gruner.)
Cyclostoma elongatum Chemn. ed. II. N. 79. p. 84. t. 10. f. 19. 20?

Habitat in insula Cuba.

10. **Ch. simplex Pfr.** 468

T. subperforata, oblonga, truncata, solidula, lineis spiralibus elevatis, longitudinalibusque confertissimis illas transgredientibus sculpta, vix nitidula, pallide aurantiaca, lineis rufis strigatim interruptis picta; sutura subsimplex; anfr. superst. 4½ convexi, lente accrescentes, ultimus rotundatus, basi distinctius spiraliter sulcatus, antice subsolutus; apertura verticalis, angulato-ovalis; perist. simplex, continuum, vix expansiusculum, marginibus superne in angulum productum junctis. — Operc. fusco-luteum. — Long. 11½, diam. 5 mill. Ap. 4 mill. longa, 3 lata. (Mus. Cuming.)

● *Cyclostoma simplex (Chondropoma) Pfr.* in Proc. Zool. Soc. 1852. 9 Mart.
— — *Chemn.* ed. II. N. 390. t. 47. f. 23. 24.

Habitat in insula Haiti (Sallé).

§. 3.

11. **Ch. pictum Pfr.** 469

T. perforata, cylindrico-conica, truncata, tenuis, spiraliter confertim striata, pellucida, rubescenti-fulva, interrupte castaneo-fasciata vel taeniata, fasciis latioribus saepe 3—4, reliquis linearibus; anfr. superst. 4 convexi, ultimus basi rotundatus; apertura subverticalis, ovalis; perist. subliberum, subincrassatum, breviter reflexum, intus nitide carneum, marginibus superne angulatim junctis, columellari basi subdilatato. — Operc. subterminale, subpellucidum, pallide luteo-griseum. — Long. 21, diam. 11 mill. Ap. 8 mill. longa, 6 lata. (Coll. Nr. 206.)

Cyclostoma pictum Pfr. in Wiegm. Arch. f. Nat. 1839. I. p. 356.
— — *Chemn.* ed. II. N. 129. p. 125. t. 15. f. 1—11. (t. A. f. 4. 5 anim.)
— — *Desh.* Traité élém. Conch. t. 82. f. 7. 8.
— *semilabrum Reeve* Conch. syst. II. t. 183. f. 1?
— *Sagra Orb.* Moll. Cub. I. p. 263. t. 22. f. 21—23. *)

*) T. oblongo-elongata, tenui, diaphana, umbilicata, fulva, longitudinaliter transversimque fusco-rubra, maculata, transversim minute striata; spira elongata (adulta truncata) apice acuminato; anfr. 7 convexis; suturis sim-

Cyclostoma Sagra Sow. Thes. N. 166. p. 150. t. 31. f. 279. *)
— *Mahogani Gould* in Bost. Journ. IV. 1. 1842.
Chondropoma pictum Pfr. in Zeitschr. f. Malak. 1847. p. 109. (excl. var.)
— — *Pfr.* Consp. N. 419.
— *semilabre var. Gray* Catal. Cycloph. p. 56.

β. Testa fere unicolore atro-violacea, magnitudine varians.

γ. Testa minore, saepe saturatius colorata; long. 14, diam. $7^1/_2$ mill.; ap. 6 mill. longa, 4 lata. (Coll.)

Cyclostoma punctulatum Fér. Mus.
— *Sagra var. Sow.* Thes. t. 31. f. 280.
— *pictum var. Chemn.* l. c. f. 6. 7.

Habitat in insula Cuba, frequens circa Matanzas.

470 12. **Ch. Poeyanum Orbigny.**

T. perforata, ovato-turrita, truncata, solida, lineis spiralibus elevatis, alternis minoribus, scabriuscula, parum nitida, carnea, lineis interruptis rufis cingulata; sutura simplex; anfr. superst. 4 convexiusculi, ultimus antice subascendens, basi angustissime perforatus; apertura verticalis, angulato-ovalis; perist. subduplex, plerumque praeter angulum superum connatum, album, expansiusculum, margine columellari strictiusculo, vix dilatato. — Operc. normale. — Long. 16, diam. 9 mill. Ap. $7^1/_2$ mill. longa, 5 lata. (Coll. Nr. 207.)

Cyclostoma Poeyana Orb. Moll. Cub. I. p. 264. t. 22. f. 24—27. **)

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plicibus; apertura ovali; labro tenui. — Long. (trunc.) 16, diam. 8 mill. — Coquille oblongue, mince, fragile, transparente, ombiliquée, brillante, marquée, en travers, de stries peu profondes. Spire conique, acuminée à son extrémité dans le jeune âge, tronquée au quatrième tour dans l'âge adulte; chaque tour peu convexe, séparé par des sutures lisses et peu profondes. Bouche ovale, à bords simples, non épaissis, ni réfléchis. Couleur: fauve très clair, avec des tâches brun roux, par lignes longitudinales et transversales. (Orb. l c.)

*) T. oblonga, tenui, pellucida, nitida, spiraliter striata, pallida, maculis punctisque numerosis seriatim dispositis ornata; apice decollato; anfr. 3—4 subventricosis; apertura elliptica; postice subacuminata, peritremate subincrassato, subreflexo; umbilico parvo; operculi anfr. duobus. (Sow. l. c.)

**) T. oblongo-elongata, crassa, subumbilicata, transversim profunde striata, fuscescente-fulva, zonis rufis cincta; spira elongata, conica (adulta truncata); anfr. 6 convexis; suturis simplicibus; apertura ovali; labro simplici. — Long. (trunc.) 13, diam. 6 mill. — Coquille allongée, assez épaisse, à peine ombiliquée, terne, fortement striée en travers. Spire conique, acuminée, tronquée dans l'âge adulte au quatrième tour; ceux-ci convexes, séparés par des sutures lisses et profondes. Bouche ovale, à bords non épaissis ni réfléchis. Couleur: jaune-rougeâtre pâle, avec des zones peu distinctes brun rougeâtre. — On ne peut plus voisine de la précédente (*C. Sagra*), cette espèce pourrait bien n'en être qu'une variété; néanmoins

Cyclostoma Poeyanum Chemn. ed. II. N. 261. t. 36. f. 22. 23.
Chondropoma pictum β Pfr. in Zeitschr. f. Mal. 1847. p. 109.
— *Hellenicum Gray* Catal. Cycloph. p. 56. N. 5.
— *Poeyanum Pfr.* Consp. N. 420.

β. Testa paulo majore, perist. paulo magis expanso:
Cyclostoma Charpentieri Shuttl in sched. Cuming.
— *Poeyanum var. Chemn.* l. c. f. 26. 27.

γ. Testa minore, perist. undique duplicato; long. 11, diam. 6 mill.; ap. 5 mill. longa, 3⅓ lata.
Cyclostoma Poeyanum var. Chemn. l. c. f. 24. 25.

Habitat in insula Cuba.

Obs. Differt a *Ch. picto* sculptura, umbilico angustiore, etc., a *Ch. obeso* anfractu ultimo et apertura multo majoribus, etc.

13. Ch. obesum Menke. 471

T. subperforata, oblongo-conica, truncata, solidula, lineis elevatis elegantissime cingulata (interstitiis subtiliter transverse striatis), fulvo-lutea vel rubicunda; anfr. superst. 4 convexiusculi, regulariter accrescentes, ultimus antice breviter ascendens; apertura verticalis, ovalis; perist. subincrassatum, breviter expansum, marginibus superne angulatim junctis. — Operc. normale. — Long. 15, diam. 8 mill. Ap. 7 mill. longa, 5 lata. (Coll. Nr. 208.)

Truncatella obesa Menke Syn. ed. II. p. 137. *)
Cyclostoma obesum Pfr. in Wiegm. Arch. 1840. I. p. 253.
— — *Sow.* Thes. N. 146. p. 143. t. 31. f. 278. **)
— — *Chemn.* ed. II. N. 78. p. 83. t. 10. f. 21—23.
Chondropoma obesum Pfr. in Zeitschr. f. Malak. 1847. p. 109.
— — *Gray* Catal. Cycloph. p. 56. N. 4.
— — *Pfr.* Consp. N. 421.

Habitat in insula Cuba.

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comme nous ne l'avons pas vue sur les lieux, et qu'un grand nombre d'individus nous ont montré une taille plus petite, des stries beaucoup plus saillantes et élevées, une coquille plus épaisse, plus terne, moins ombiliquée, nous avons dû, jusqu' à nouvelles observations, la considérer comme distincte. (Orb. l. c.)

*) T. ovato-elliptica, turrita, truncata, perforata, pallide fusca; anfr. tribus, convexis, transversim striatis, ultimo ventricoso. — Long. 5⅓, lat. 2¼ lin. (Menke l. c.)

**) T. oblonga, crassiuscula, fuscescente, apice decollato, anfr. 3—4 rotundatis, spiraliter sulcatis, tenerrime transversim striatis, apertura subovali, peritremate tenui, reflexo; umbilico parvo; operculo tenui, anfractibus 3. (Sow. l. c.)

472 14. **Ch. semilabre Lamarck.**

T. subperforata, ovato-elongata, truncata, solidiuscula, longitudinaliter plicatula, lineis spiralibus obsoletissimis interdum decussatula, nitida, diaphana, albida, lineis interruptis vel fasciis angustis castaneis plerumque ornata; sutura minutissime crenulata; anfr. superst. 4 parum convexi, ultimus antice parum solutus, superne carinatus, basi concentrice striatus; apertura verticalis, oblique acuminato-ovalis; perist. obtusum, undique breviter expansiusculum. — Operc. albidum. — Long. 19, diam. 9½ mill. Ap. 8 mill. longa, medio 5½ lata. (Coll. Nr. 209.)

Cyclostoma semilabris Lam. Hist. VI. p. 146. N. 12. Ed. Desh. p. 357.*)
— — *Deless.* Recueil t. 29. f. 1.
— *semilabrum Sow.* Thes. N. 44. p. 106. t. 24. f. 60. **)
— *semilabre Chemn.* ed. II. N. 130. p. 126. t. 15. f. 17. 18. (ex Deless & Sow.) t. 37. f. 1. 2. t. 49. f. 17—20.
— — *Pfr.* in Zeitschr. f. Mal. 1850. p. 80.
Chondropoma semilabre Pfr. in Zeitschr. f. Mal. 1847. p. 109. (excl. synon.)
— — *Gray* Catal. Cycloph. p. 55. N. 2. (exclusa var.)
— — *Pfr.* Consp. N. 422.

Habitat in insula Haiti (Sallé).

473 15. **Ch. dentatum Say.**

T. perforata, oblongo-conica, truncata, tenuiuscula, striis longitudinalibus et spiralibus anguste subreticulata, nitidula, corneo-lutescens vel rufescens, lineis longitudinalibus fulguratis rufis ornata, interdum late unifasciata; sutura subconfertim albo-crenata; anfr. superst. 4½ convexiusculi, ultimus subattenuatus, basi validius spiraliter sulcatus; apertura verticalis, oblique ovalis; perist. simplex, subincrassatum, brevissime

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*) T. oblongo-conoidea, subcylindrica, obtusa, obsolete perforata, tenui, pellucida, minutissime cancellata, alba; maculis luteis transversim striatis; labro margine angusto, subreflexo. — Habite .... Jolie coquille, très mince, transparente, qui diffère principalement de celles qui précèdent *(labeo, interrupta, ambigua)* par son rebord étroit. Longueur 10 lignes et demie. (Lam. l. c.)

**) T. oblonga, sub-cylindracea, subacuminata, apice decollato, spira aperturam fere duplo superante; anfr. 4 rotundatis, tenuissime decussatis, interruptim fusco-lineatis; apertura subovali, superne angulata; peritremate tenui, extus subpatente; sutura indistincta; umbilico minimo. (Sow. l. c.)

expansum, saepe rufo-punctatum, continuum, anfr. penultimum vix tangens, superne angulatum. — Operc. normale, pallide fusculum. — Long. 13, diam. 6 mill. Ap. 5 mill. longa, 3½ lata. Speciminum minorum adultorum long. 9, diam. 4⅓ mill. (Coll. Nr. 210.)

Cyclostoma dentatum Say in Philad Journ. V. p. 125. *) (test. sp. Mus. Cuming.)
— *lineolatum Anton* Verz. p. 54. N. 1958. **) Nec Lam.
— *crenulatum Pfr.* in Wiegm. Arch. f. Nat. 1839. I. p. 356. Nec Fér.
— — *Chemn.* ed. II. N. 123. p. 119. t. 14. f. 24. 25. 30. 31.
— *Auberiana Orb.* Moll. Cub. I. p. 260. t. 22. f. 12—14. ***)
— *Aubereanum Sow.* Thes. N. 150. p. 144. t. 31. f. 285. †)
— *lunulatum Mörch* Cat. Conch. p. 8. (ex synon.)
Chondropoma crenulatum Pfr. in Zeitschr. f. Mal. 1847. p. 109.
— — *Gray* Catal. Cycloph. p. 56. N. 6.
— *dentatum Pfr.* Consp. N. 423.

Habitat in Florida et frequens in parte septentrionali insulae Cubae.

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*) T. conica, cylindrica, apice truncata; anfr. 3—4 convexiusculis, lineis elevatis subtilibus, regularibus, subaequalibus, longitudinalibus et transversis cancellata; sutura crenulata; lineis 1 vel pluribus rufis, interdum obsoletis circumdata; labro subreflexo, albo; umbilico distincto. — Long. vix ½'''. Florida. (Say l. c.)

**) T. anguste umbilicata, oblongo-conica, decollata, spiraliter striata, nitidula, lutescenti-alba, lineis rubris interruptis crebris ornata; anfr. 4½ planiusculi, ultimus penultimum vix excedens; sutura levis, lamellata; apertura ovato-rotundata; perist. continuum, solutum, inflexum, ad insertionem marginis dextri subemarginatum. — Diam. 4, alt. 7 lin. (Ant. l. c.)

***) T. elongata, conica, crassa, subumbilicata, fasciata, minutissime decussatim striata; spira elongata, conica, apice acuminata (adulta truncata); anfr. 6 convexiusculis, ultimo soluto; suturis profunde crenulatis; apertura ovali, postice angulosa; labro margine simplici, non incrassato. — Long. 13, diam. 5 mill. — Cette coquille paraît avoir été violacée; un individu nous a montré une large bande brune sur la convexité de la spire. Elle diffère de toutes les espèces décrites ci-dessus, par son grand allongement et par les crénelures de ses sutures; elle forme avec le *C. Candeana, Delatreana, Sagra* et *Poeyana* un petit groupe, caractérisé par la coquille allongée et tronquée. (Orb. l. c.)

†) T. oblongo-pyramidali, crassiuscula, albicante, fusco angulatim lineolata, apice decollato; anfr. 4 subrotundatis, spiraliter striatis, eleganter decussatis; sutura crenulata; apertura subelliptica, postice subangulata, peritremate subreflexo; umbilico parvo, striis validioribus; operculi anfractibus 2. (Sow. l. c.)

§. 4.

474 16. **Ch. hemiotum Pfr.**

T. perforata, oblongo-turrita, tenuiuscula, lineis spiralibus obsolete elevatis, longitudinalibusque confertissimis (10—12 in fasciculum junctis) levissime clathrata, non nitens, fusculo-albida, plerumque lineis interruptis rufis et fascia 1 rufa latiore inframediana ornata; spira subtruncata; sutura confertim denticulata; anfr. 5—7 convexiusculi, ultimus antice breviter solutus, dorso carinatus; apertura subverticalis, ovalis; perist. subduplicatum: internum continuum, expansiusculum, externum a medio marginis dextri descendens, breviter patens, medio marginis sinistri in auriculam subundulatam terminatum. — Operc. normale. — Long. 16, diam. $7^2/_3$ mill. Ap. intus 6 mill. longa, $4^1/_2$ lata. (Coll. Nr. 211.)

Cyclostoma hemiotum (Chondropoma) Pfr. in Proc. Zool. Soc. 9 Mart. 1852.

— — *Chemn.* ed. II. N. 396. t. 48. f. 3. 4.

Habitat in insula Haiti (Sallé).

475 17. **Ch. Newcombianum Adams.**

T. vix perforata, oblongo-turrita, tenuis, lineis elevatis concentricis et plicis longitudinalibus confertissimis illas transgredientibus (quarta vel quinta quavis plerumque validioribus) sculpta, diaphana, nitidula, fulvida; spira elongata, vix truncatula; sutura denticulata; anfr. $5^1/_2$—6 convexiusculi, ultimus subteres, antice breviter solutus, striis spiralibus basi distinctioribus, confertis; apertura verticalis, angulato-rotundata; perist. tenue, subduplicatum, breviter et horizontaliter expansum. — Operc. pallidum, nucleo parum excentrico. — Long. 15, diam. $7^1/_3$ mill. Ap. intus 5 mill. longa, 4 lata. (Coll. Nr. 212.)

Cyclostoma Newcombianum Adams Contrib. to Conch. N. 1. p. 8. *)

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*) Shell much elongated, conic; very pale orange, elegantly decorated with several spiral series of small brown oblique spots which have white shadows, the spots being in transverse series; with numerous small but strong transverse whitish raised lines, which are mostly in groups of three to five and at the summit are developed into minute sutural crenulations; spire with slightly convex outlines; apex truncate with the loss of two or three whorls; five whorls remaining, with a well impressed suture; last whorl-detached from the penult whorl near the aperture; aperture suborbicular, quite angular above; inner peritreme slightly produced; outer peritreme moderately expanding, shining, reflected exactly into the plane of the aperture, rather thick, nearly wanting opposit to the penult whorl,

Cyclostoma Newcombianum Chemn. ed. II. N. 271. t. 37. f. 25. 26.
— *Troscheli Pfr.* in Zeitschr. f. Mal. 1850. p. 64.
— *Swiftianum Newcomb* mss. in Mus. Cuming.
Chondropoma Newcombianum Pfr. Consp. N. 424.

Habitat in insula St. Thomae Ind. occident.; nec in Jamaica (Adams).

18. **Ch.? turritum Pfr.** 476

T. subperforata, turrita, truncatula, lineis elevatis spiralibus et longitudinalibus regulariter clathrata, albida, lineolis rufis interruptis cincta; sutura subprofunda, confertim denticulata; anfr. superst. 6 convexiusculi, regulariter accrescentes, ultimus rotundatus, basi liris validis spiralibus munitus; apertura verticalis, ovalis, intus fulvida; perist. subduplex: internum continuum, expansiusculum, externum superne angulato-dilatatum, margine dextro vix patens, columellari et sinistro excisum. — Operc.? — Long. 16, diam. 7 mill. Ap. 5 mill. longa, 4 lata. (Mus. Cuming.)

Cyclostoma turritum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 313. t. 41. f. 1. 2.
Chondropoma? turritum Pfr. Consp. N. 425. p. 69.

Habitat Honduras (Dyson.)

19. **Ch. crenulatum Férussac.** 477

T. anguste perforata, oblongo-turrita, decollata, solidula, liris transversis elevatis costulisque longitudinalibus acutis, liras supercurrentibus sculpta, cinnamomea; sutura denticulis albis subdistantibus munita; anfr. superst. 4 convexi; apertura verticalis, ovalis; perist. rubellum, continuum, duplicatum, internum expansiusculum, appressum, externum breviter patens, juxta anfractum penultimum subinterruptum. Operc. normale. — Long. 11, diam. 5 mill. Ap. $4^1/_2$ mill. longa, $3^2/_3$ lata. (Coll. Nr. 213.)

Cyclostoma crenulatum Fér. Mus.
— — *Pot. et Mich.* Gal. Douai I. p. 235. t. 24. f. 3. 4.
— — *Petit* in Journ. Conch. 1850. I. p. 47.
— *guadeloupense Pfr.* in *Chemn.* ed. II. N. 193. p. 176. t. 28. f. 9—11.

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moderately produced above into a sharply angular concave wing; umbilicus very small. — Mean divergence 37°; length 0,52; greatest breadth 0,28; least breadth 0,22 inch. (Adams l. c.)

Chondropoma Guadeloupense Pfr. in Zeitschr. f. Mal. 1847. p. 124.
— *crenulatum Pfr.* Consp. N. 426.

Habitat in insula Guadeloupe (Petit).

478 20. **Ch.? diaphanum Pfr.**

T. subperforata, oblongo-turrita, truncata, tenuiuscula, lineis elevatis spiralibus, confertis, costulisque illas transgredientibus filaribus confertioribus decussata, diaphana, unicolor albida; spira elongata; sutura irregulariter crenata; anfr. superst. $4^1/_2$ convexi, subaequales, ultimus antice solutus, dorso carinatus, basi rotundatus, distinctius spiraliter sulcatus; apertura verticalis, angulato-ovalis; perist. subsimplex, continuum, undique breviter expansum. — Operc.? — Long. 12, diam. 5 mill. Ap. intus $3^1/_2$ mill. longa, 3 lata. (Mus. Cuming.)

Cyclostoma diaphanum Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 312. t. 40. f. 36. 37.
Chondropoma? diaphanum Pfr. Consp. N. 427. p. 69.

Habitat . . .?

§. 5.

479 21. **Ch. blandum Pfr.**

T. subperforata, ovato-turrita, truncata, solidula, lineis elevatis spiralibus, confertioribusque longitudinalibus illas transgredientibus sculpta, diaphana, nitidula, fusco-violacea vel albida, strigis et lineolis rufis irregulariter picta; sutura subsimplex, albida; anfr. superst. 4 convexi, ultimus rotundatus, basi fortius spiraliter striatus; apertura verticalis, ovalis; perist. album, duplex: internum breviter porrectum, externum undique horizontaliter et breviter patens, minute undulatum, superne angulato-dilatatum, ad anfr. penultimum breviter excisum. — Operc. *Ch. picti.* — Long. 18, diam. $9^1/_2$ mill. Ap. 7 mill. longa, 5 lata. (Mus. Cuming.)

Cyclostoma blandum (Chondropoma) Pfr. in Proc. Zool. Soc. 9 Mart. 1852.
— — *Chemn.* ed. II. N. 391. t. 47. f. 13. 14.

Habitat in insula Haiti (Sallé).

480 22. **Ch.? jucundum Pfr.**

T. perforata, ovato-turrita, tenuis, lineis spiralibus et longitudinalibus chordaeformibus anguste reticulata, subscabra,

vix nitidula, aurantiaco-rubicunda; spira turrita, vix truncatula; sutura confertim denticulata; anfr. 6—7 modice convexi, regulariter accrescentes, ultimus circa perforationem liris nonnullis validioribus munitus; apertura parum obliqua, irregulariter ovalis, intus concolor, nitida; perist. duplex: internum expansiusculum, incumbens, latere sinistro levissime arcuato, externum continuum, horizontaliter patens, anfractui penultimo breviter adnatum, infra perforationem angustatum. — Operc.? — Long. 18, diam. $8^1/_2$ mill. Ap. intus 6 mill. longa, $4^1/_2$ lata. (Mus. Cuming.)

Cyclostoma jucundum Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 370. t. 46. f. 36. 37.
Chondropoma? jucundum Pfr. Consp. N. 428. p. 69.

Habitat . . .?

23. Ch. Petitianum Pfr. 481

T. vix subperforata, oblongo-turrita, truncata, lineis elevatis subdistantibus spiralibus et plicis confertis illas transgredientibus sculpta, vix nitidula, albida, fusculo marmorata et subfasciata; spira gracilis; sutura remote et irregulariter crenulata; anfr. superst. 5—$5^1/_2$ convexiusculi, lente accrescentes, ultimus non solutus; apertura subverticalis, ovalis; perist. duplex: internum breviter, externum horizontaliter modice expansum, castaneo maculatum, superne subauriculatum; ad anfr. penultimum excisum, margine sinistro angusto. — Operc. fulvidum. — Long. 14, diam. $5^2/_3$ mill. Ap. intus 4 mill. longa, $3^1/_2$ lata. (Coll. Nr. 214.)

Cyclostoma Petitianum Pfr. in Zeitschr. f. Mal. 1850. p. 78.
— — *Chemn.* ed. II. N. 270. t. 37. f. 23. 24.
Chondropoma Petitianum Pfr. Consp. N. 429.

Habitat in insula Haiti (Sallé).

24. Ch. rubicundum Morelet. 482

T. vix subperforata, oblongo-turrita, non truncata, longitudinaliter confertim plicata, nitidula, diaphana, vinoso-rubicunda; spira turrita, superne violacea, acutiuscula; sutura simplex; anfr. 6 convexi, ultimus basi spiraliter subsulcatus; apertura verticalis, ovalis; perist. nitide sanguineum, duplex: internum breviter porrectum, externum rectangule breviter patens, ad anfr. penultimum emarginatum. — Operc. normale. — Long. 14, diam. 6 mill. Ap. $4^1/_2$ mill. longa. (Coll. Nr. 215.)

Cyclostoma rubicundum Morel. Test. noviss. p. 22. N. 56. *)
— — *Chemn.* ed. II. N. 273. t. 37. f. 29, 30.
Chondropoma rubicundum Pfr. Consp. N. 430.

Habitat prov. Peten et Vera Paz Guatemalae (Morelet).

483 25. **Ch.? harpa Pfr.**

T. breviter rimata, oblongo-turrita, tenuiuscula, plicis longitudinalibus chordaeformibus subdistantibus munita, cinnamomeo-carnea, haud nitens, lineis rufis strigatim interruptis ornata; spira turrita, integra, sursum nigro-violacea, apice obtusa; sutura profunda, plicis prominentibus subcrenata; anfr. 6 convexi, ultimus rotundatus; apertura verticalis, ovali-subcircularis, perist. rubellum, duplex: internum expansiusculum, appressum, externum undique vix dilatato-patens, anfractui penultimo breviter adnatum. — Operc.? — Long. 12, diam. 6 mill. Ap. 4 mill. longa, $3^1/_3$ lata. (Mus. Cuming.)

Cyclostoma harpa Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 323. t. 41. f. 28. 29.
Chondropoma? harpa Pfr. Consp. N. 431. p. 69.

Habitat Almendares prope Havana.

484 26. **Ch. integrum Pfr.**

T. perforata, turrita, tenuiuscula, integra, lineis obsolete elevatis spiralibus et costulis confertis longitudinalibus (tertia vel quarta quavis validioribus) subdecussata, fulvida, fasciis interruptis rufis cingulata; spira regulariter turrita, apice obtusiuscula; sutura subconferte denticulata; anfr. 7 convexi, primi 2 laevigati, ultimus rotundatus, antrorsum breviter solutus, vix descendens, basi rotundatus, fasciis 2—3 continuis rufis ornatus; apertura vix obliqua, ovalis; perist. subduplicatum: internum continuum, adnatum, externum patens, superne subangulato-dilatatum, tum emarginatum, latere columellari undulatum. — Operc. normale. — Long. 12, diam. 5 mill. Ap. intus $3^1/_2$ mill. longa, 3 lata. (Mus. Cuming.)

Cyclostoma integrum Pfr. in Proc. Zool. Soc. 1851. Jul.

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*) T. ovato-pyramidalis, umbilicata, translucida, coccineo-rubens, apicem versus violaceo saturatiore, anfr. 6 convexi, priores plicato-costulati, ultimo tenuiter striato, strigis ad basim prominentioribus, ad aream umbilicarem trisulcato; apertura rotundo-ovalis; perist. duplex, interno lineari, emergente, externo angusto, latere anfractus penultimi emarginato. — Long. 15, diam. 7 mill. (Morelet l. c.)

Cyclostoma integrum Chemn. ed. II. N. 282. t. 38. f. 25. 26.
Chondropoma integrum Pfr. Consp. N. 432. p. 70.

Habitat in India occidentali.

27. **Ch. truncatum Wiegmann.** † 485

T. subperforata, conico-turrita (apice plerumque truncato) lutescens, fusco-punctata, eleganter decussata; sutura subcrenulata; apertura ovali-rotunda; perist. solutum, reflexum, duplex. — Operc. cartilagineum, immersum. — Alt. 6—8, lat. 3—5 lin. Anfr. post truncationem 5. (Rossm.)

Cyclostoma truncatum Wiegm. mss. in Mus. Reg. Berol.
— — *Rossm.* Ic. VI. p. 49. t. 28. f. 397.
Chondropoma truncatum Pfr. Consp. N. 433.

Habitat in Mexico.

28. **Ch.? Delatreanum Orbigny.** † 486

T. elongata, crassa, imperforata, fulva, zonis fuscis cincta, longitudinaliter costata, transversim striata; spira elongata, conica, apice acuta (adulta truncata); anfr. 8 convexi; suturae crenulatae; apertura ovalis; labrum dilatatum, reflexum. — Long. 14, diam. 5 mill. (Orb.)

Cyclostoma Delatreana Orb. Moll. Cub. I. p. 262. t. 22. f. 18—20. *)
— *Dutertreanum* (Orb.) *Petit* Journ. Conch. 1850. I. p. 47.
Cistula Delatreana Gray Catal. Cycloph. p. 59. N. 8.
Chondropoma? Delatreanum Pfr. Consp. N. 434.

Habitat in insulae Cubae Cerro de Cuzco (Delâtre).

Obs. Conf. *Cistula confusa Pfr.* (p. 274.)

*) Coquille allongée, un peu turriculée, assez épaisse, non-ombiliquée, treillissée par des côtes longitudinales croisées de stries régulières, transverses. Spire très allongée, conique, à sommet acuminé (tronqué dans l'âge adulte); le nombre des tours est réduit dans les individus tronqués à 5, convexes, séparés par des sutures fortement crénelées. Bouche ovale, entourée de bords élargis et fortement refléchis. *Opercule ovale, lisse en dessus.* La teinte générale est brun violacé clair, avec des bandes étroites transversales brunes, les sillons longitudinaux plus pâles, la bouche blanche. — Nous avons été tenté de réunir cette espèce au *C. Auberiana*, mais plus allongée, sans ombilic; sa bouche, au lieu d'être simple, est refléchie sur ses bords, ce qui n'existe pas sur près d'un cent d'exemplaires de l'espèce citée. (Orb. l. c.)

§. 6.

487 29. **Ch. latilabre Orbigny.**

T. umbilicata, *globoso-turbinata*, decollata, tenuis, longitudinaliter confertim plicato-striata, diaphana, fulvida, fasciis multis interruptis castaneis ornata; sutura profunda; anfr. superst. $3\frac{1}{2}$ perconvexi, ultimus rotundatus; umbilicus mediocris, pervius; apertura subverticalis, subovalis; perist. album, duplex: internum vix prominens, expansiusculum, externum dilatatum, undique rectangule patens, superne angulatum. — Operc. profundum. — Long. 18, diam. 13 mill. Ap. intus 8 mill. longa, 7 lata. (Mus. Cuming.)

Cyclostoma latilabris Orb. Moll. Cub. I. p. 255. t. 21. f. 12. *)
— *latilabrum Sow.* Thes. N. 116. p. 131. t. 31. f. 281. **)
— *latilabre Chemn.* ed. II. N. 255. t. 36. f. 9. 10. Nec Nr. 72.
Choanopoma latilabre Gray Catal. Cycloph. p. 50. N. 7.
Chondropoma latilabre Pfr. Consp. N. 435.

Habitat in insula Cuba.

Obs. Conf. *Cistula? platychila Pfr.* (p. 261.)

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488 30. **Ch. irradians Shuttleworth.**

T. subperforata, ovato-turrita, truncata, tenuis, lineis elevatis longitudinalibus et spiralibus confertim decussata et exasperata, pallide cornea, fasciis 4 submaculose interruptis fuscis ornata; anfr. superst. 5 convexi, ultimus rotundatus; apertura verticalis, ovalis; perist. duplex: internum continuum, breviter expansum, externum ad anfr. penultimum interruptum, caeterum horizontaliter late expansum, concentrice striatum, radiis 4 castaneis signatum, versus marginem radiato-plicatum. — Operc. normale, pallidum. — Long. 18, diam. 8 mill. Ap.

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*) T. conica, tenui, diaphana, longitudinaliter exilissime striata, alba, late umbilicata; spira elevata, conica, apice acuto; anfr. 6 convexis, suturis excavatis; apertura circulari; labro margine dilatato, pellucido, lato, reflexo. — Diam. 21, long. 21 mill. — Sommet aigu, souvent tronqué. Cette espèce, par sa forme, a quelques rapports avec le *C. labeo Lam.*; mais plus raccourcie, plus conique, infiniment plus mince et plus découpée dans ses formes, elle en diffère encore par ses stries longitudinales simples. C'est une des plus belles du genre. (Orb. l. c.)

**) T. globoso-conoidea, tenui, subhyalina, albida; apice decollato; anfr. 4 rotundatis, tenuissime transversim striatis; sutura profunda, apertura circulari; peritremate duplici, interno subreflexo; externo late expanso; umbilico magno. (Sow. l. c.)

6 mill. longa, $4^1/_2$ lata; limbus peristomatis fere 3 mill. latus. (Coll. Nr. 216.)

Cyclostoma irradians Shuttl. mss.
— — *Chemn.* ed. II. N. 264. t. 37. f. 9. 10.
Chondropoma irradians Pfr. Consp. N. 436.

Habitat in insula Cuba.

§. 7.

31. **Ch. Shuttleworthi Pfr.** 489

T. clause umbilicata, oblonga, truncata, spiraliter confertim plicata, lineis longitudinalibus obsolete decussata, sericea, pallidissime fulvida, fasciis valde interruptis castaneis ornata; spira oblonga; anfr. superst. 3 convexiusculi, ultimus basi rotundatus; apertura obliqua, angulato-ovalis; perist. duplex: internum breve, expansiusculum, externum late patens, concentrice striatum, radiatim plicatum et castaneo-radiatum, ad columellam excisum, lamina alba fornicata umbilicum prorsus claudens. — Operc. normale, nucleo subbasali. — Long. 22, diam. $11^1/_2$ mill. Ap. intus 8 mill. longa, 6 lata. (Mus. Cuming.)

Cyclostoma Shuttleworthi Pfr. in Proc. Zool. Soc. 1851. Jul.
— — *Chemn.* ed. II. N. 254. t. 36. f. 7. 8.
Chondropoma Shuttleworthi Pfr. Consp. N. 437. p. 70.

Habitat in insula Cuba.

32. **Ch. tenebrosum Morelet.** 490

T. subclause perforata, ovato-conica, tenuiuscula, lineis elevatis longitudinalibus et distantioribus concentricis decussata, vix nitida, violacea-nigra; spira conica, breviter truncata; sutura impressa, simplex; anfr. superst. 4 convexi, celeriter accrescentes; apertura subverticalis, magna, ovalis; perist. duplex : internum breviter porrectum, externum dilatatum, undique rectangule patens, concentrice striatum, superne angulatum, inde ad anfractum penultimum fornicato-semiadnatum, sinum parvulum cum margine basali formans. — Operc. normale, fusculum. — Long. 16, diam. 9 mill. Ap. $6^1/_2$ mill. longa, $5^1/_3$ lata. (Coll. Nr. 217.)

Cyclostoma tenebrosum Morelet Test. noviss. p. 23. N. 60. *)

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*) T. ovato-conoidea, apice truncata, obtuse umbilicata, decussata, violaceo-nigricans, lineis obscure fuscis ad basim radiatim conspicuis fascio-

Cyclostoma tenebrosum Chemn. ed. II. N. 265. t. 37. f. 11. 12.
— *claudicans Poey* Memorias I. t. 7. f. 8—11.
Chondropoma tenebrosum Pfr. Consp. N. 438.
β. Testa fulvida, limbo externo peristomatis superne subangulato.

Habitat ad montem Guajaibon insulae Cubae.

491 33. **Ch. Ottonis Pfr.**

T. obtecte umbilicata, ovato-oblonga, decollata, tenuis, subtiliter decussata, scabriuscula, subdiaphana, fusco-cornea; sutura mediocris, simplex; anfr. superst. 4 convexiusculi, regulariter accrescentes; apertura verticalis, oblique ovalis, superne subangulata; perist. duplex: internum simplex, album, nitidum, non prominens, externum late expansum, superne subauriculatum, margine dextro et basali limbum latiusculum, concentrice striatum, prope columellam breviter abruptum, sinistro laminam fornicatam, undique adnatam, umbilicum prorsus claudentem formante. — Operc. normale. — Long. 18, diam. 10 mill. Ap. 7, cum limbo 9 mill. longa. (Coll. Nr. 218.)

Cyclostoma Ottonis Pfr. in Zeitschr. f. Malak. 1846. p. 45.
— — *Chemn.* ed. II. N. 36. p. 45. t. 6. f. 7. 8.
Choanopoma? Ottonis Pfr. in Zeitschr. f. Mal. 1847. p. 107.
— — *Gray* Catal. Cycloph. p. 50. N. 6.
Chondropoma Ottonis Pfr. Consp. N. 439.
β. Testa minore; long. 12, diam. 7 mill. Ap. intus $4^1/_2$ mill. longa. (Coll.)

Habitat in insula Cuba! In provincia Callajabas legit amicus E. Otto; var. *β* ad Almendares prope Havana (Morelet, Poey).

Obs. Hanc speciem cum *C. pudico Orb.* identicam putarem, nisi descriptio Orbignyana operculum lamellatum (*Choanopomatis*) postulare videretur. Conf. supra p 156.

491a
491b

XXVI. Pomatias Studer.

Operculum cartilagineum, paucispirum, e 2 laminis compositum, intus concameratum. Testa subimperforata, conico-

lata; anfr. 5 convexi, priores strigis decurrentibus plus minusve angulati; ultimo ventricoso; apertura oblique ovata, sursum attenuata Perist. lividum, duplex; externum dilatatum, continuum, tenue, concentrice striolatum, ad suturam acute canaliculatum, ad umbilicum plicatim reflexum, marginibus callo convexiusculo junctis. — Long. 19, diam. 10 mill. (Mor. l. c.)

turrita vel turrita, longitudinaliter striata vel costata; peristoma subsimplex vel duplicatum, limbo interno subcontinuo, externo expansiusculo vel reflexo, saepe auriculato.

Pomatias Studer in Coxe's Trav. in Switzerland 1789.
— — Verzeichn. p. 21.
— *Hartmann* in Neue Alpina I. p. 204. 214 et in Sturm's Fauna VI. H. 5. p. 34.
— *Cristof.* et *Jan* Catal. p. 6.
— *Rossm.* Iconogr. VI. p. 50.
— *Villa* Disp. syst. p. 28. 58.
— *Gray* Syn. Brit. Mus. 1842. p. 91; Proc. Zool. Soc. 1847. p. 182; et Catal. Cycloph. p. 61.
— *Graells* Catal. Molusc. terr. p. 8.
— *Troschel* in Zeitschr. f. Malak. 1847. p. 43.
— *Pfr.* ibid. p. 47. 110; 1851. p. 174; Consp. p. 46.
— *Petit* in Journ. Conch. 1850. I. p. 47.
Cyclostomatis spec. *Drap.* et *Auctt.*

Conspectus specierum.

A. Peristomate auriculato . . . . . §. 1. Nr. 1—6.
B. Peristomate non auriculato . . . . §. 2. — 7—10.

§. 1.

1. P. auritus Ziegler. 492

T. obtecte subperforata, turrita, corneo-cinerea, confertim capillaceo-costulata: costis aliis in anfractibus mediis majoribus, argute elevatis; spira sursum attenuata, obtusiuscula; anfr. 9 convexiusculi, ultimus teres; apertura fere verticalis, subcircularis; perist. duplex: internum subcontinuum, anfractui penultimo appressum, albolabiatum, expansum, externum dilatatum, patens, utrinque angulatim auriculatum. — Operc. normale. — Long. 12, diam. $5^1/_3$ mill. Ap. c. perist. 5 mill. lata. (Coll. Nr. 219.)

Cyclostoma auritum Ziegl. Mus.
— — *Rossm.* Icon. VI. p. 50. t 28. f. 398. *)
— — *Sow.* Thes N. 162. p. 148. t. 28. f. 172. **)

*) T. subperforata, turrita, apice attenuato, corneo-cinerea, capillaceo-costulata, costulis mediorum anfractuum magis elatis, argutis; apertura rotundata; peristomate subsejuncto, late patente, tenui, utrinque auriculato. — Alt. 6, lat. 3'''; anfr. 9. Rossm. l. c.)

**) T. turrito-pyramidali, cinerascente, anfractibus 8, ventricosis, transversim tenuiter striatis, superioribus costellatis, costellis rariusculis; apertura

Cyclostoma auritum Chemn. ed. II. N. 207. p. 185. t. 26. f. 4—6.
— *excissilabrum Mühlf.* Mus.
— — *Pot.* et *Mich.* Gal. Douai I. p. 236. t. 24. f. 5. 6.
— . . . . . . *Cantr.* Malac. médit. t. 8. f. 5. (absque nomine et descriptione.)
Pomatias excissilabre (Meg.) Cristof. et *Jan* Catal. p. 6. n. 4.
— *aurita Trosch.* in Zeitschr. f. Mal. 1847. p. 43.
— *auritus Pfr.* ibid. p. 110 et Consp. N. 440.
— — *Gray* Catal. Cycloph. p. 61. N. 1.

Habitat in Dalmatia, Montenegro (Küster) et Albania.

493 2. **P. obscurus Draparnaud.**

T. perforata, conico-turrita, confertim costulato-striata, cornea, castaneo interrupte trifasciata; spira apice obtusiuscula; anfr. 8—9 parum convexi, ultimus lincis spiralibus distantibus (interdum obsoletis) subdecussatus, basi obsolete angulatus; apertura verticalis, ovali-rotundata; perist. subduplicatum, album: internum vix continuum, externum albolabiatum, angulatim patens, margine sinistro subauriculato. — Operc. normale, immersum. — Long. 13, diam. 5 mill. Ap. c. perist. $4^{2}/_{3}$ mill. longa, 4 lata. (Coll. Nr. 220.)

Cyclostoma obscurum Drap. Hist. p. 39. t. 1. f. 13. *)
— — *Rossm.* Ic. VI. p. 53. t. 28. f. 405. **)
— — *Dupuy* Moll. du Gers p. 64. N. 2.
— — *Mermet* Moll. pyrén. p. 74. N. 4.
— — *Chemn.* ed. II. N. 209. p. 186. t. 26. f. 1—3.
— *patulum Sow.* Thes. N. 159. p. 147. t. 28. f. 170. ***) Nec Drap.
Pomatias Studeri α *Hartm.* in Neue Alpina I. p. 214.
— *obscurum Jan* Catal. p. 6.

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elliptica, obliqua, superne subacuminata, peritremate albicante, patente, tenui, latere umbilicali marginato; umbilico tecto; operculi anfract. paucis oblique striatis. (Sow. l. c.)

*) T. cinerascente fusca, longitudinaliter convexe striata, subperforata, peristomate dilatato, reflexo, plano. (Drap. l. c.)

**) T. perforata, conico-turrita, cornea, fusco-subfasciata, costulato-striata, anfract. 8—9 convexiusculis; apertura ovato-rotundata; peristomate connexo, reflexo, albolabiato, vix auriculato. — Alt. 5—6, lat. $2^{1}/_{2}'''$. (Rossm. l. c.)

***) T. turrito-conica, cinerascente-fusca, apice obtusiusculo; anfr. 7 oblique striatis; sutura distincta; apertura subelliptica, superne subacuminata; peritremate albicante, extus reflexo-patente; umbilico minimo. (Sow. l. c.)

Pomatias obscurus Pfr. in Zeitschr. f. Mal. 1847. p. 110 et Consp. N. 441.
— — *Gray* Catal. Cycloph. p. 62. N. 6.

β. Testa minore, perist. tenui, expanso, ad anfractum penultimum subinterrupto; long. 10, diam. 4 mill. (Coll.)

Cyclostoma fimbriatum Held mss.
— *apricum Charp.* mss.
— *maculatum Sow.* Thes. N. 160. p. 148. t. 28. f. 171? *)
— *obscurum var. Chemn.* ed. II. t. 26. f. 31—33.

Habitat in Pyrenaeis! Var. β etiam prope Tergestum?

3. P. tessellatus Wiegmann. 494

T. subimperforata, conica, confertim argute costulata, cinerascenti-alba, seriatim luteo-maculata; spira elongato-conica, obtusiuscula; anfr. 8 parum convexi, ultimus basi subangulatus; apertura verticalis, angulato-rotundata; perist. subduplicatum: internum continuum, anfractui penultimo appressum, externum campanulatim expansum, superne auriculatum, margine columellari angulatim exciso. — Operc. fusco-griseum, nucleo nigricante. — Long. 9, diam. 4 mill. Ap. c. perist. 3³/₄ mill. lata. (Coll. Nr. 221.)

Cyclostoma tessellatum Wiegm. mss. in Mus. Reg. Berol.
— — *Rossm.* Icon. VI. p. 53. t. 28. f. 404. **)
— — *Sow.* Thes. N. 158. p. 147. t. 28. f. 173. ***)
— — *Chemn.* ed. II. N. 208. p. 185. t. 26. f. 7—9.
— *conspersum Ziegl.* Mus. (*Menke* syn. ed. II. p. 40.)
— *maculatum var. Pot.* et *Mich.* Gal. Douai I. p. 239.

Pomatias tessellatum Andr., *Villa* disp. syst. p. 28? (Volhinia.)
— *tessellatus Pfr.* in Zeitschr. f. Mal. 1847. p. 110 et Consp. N. 442.
— — *Gray* Catal. Cycloph. p. 62. N. 3.

Habitat in insula Corfu.

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*) T. turrito-conica, cinerascente, fusco-maculata, apice obtusiusculo, anfr. 7—8 rotundatis, transversim tenuiter striatis; sutura distincta; apertura subelliptica, superne subacuminata, peritremate extus incrassato, patulo, margine acuto; umbilico minimo (Sow. l. c.)

**) T. imperforata, conica, cinerea, seriatim maculata, argute costulata; anfr. 8 parum convexis; apertura rotundata; peristomate subsejuncto, reflexo, lato, fragili, utrimque auriculato; operculo terminali. — Alt. 4, lat. 2'''. (Rossm. l. c.)

***) T. oblonga, pyramidali, albicante, maculis quadratis brunneis ornata; spira acuminata, ad apicem obtusa, anfr. 7 convexis, quinque ultimis longitudinaliter striatis; apertura subcirculari, superne subacuminata, peritremate reflexo, tenui, albo, prope anfractum ultimum interrupto, umbilico nullo, (Sow. l. c.)

495 4. **P. maculatus Draparnaud.**

T. subimperforata, conico-turrita, undique confertim costulata, fere absque nitore, lutescenti-cornea, fasciis interruptis rufis ornata; spira conico-turrita, acutiuscula; anfr. 8—9 convexiusculi, 2 ultimi magis rotundati, ultimus antice luteus; apertura subverticalis, subtruncato-rotundata; perist. duplex: internum expansum, appressum, albolabiatum, externum campanulato-dilatatum, margine columellari in auriculam anfr. penultimum non attingentem producto. — Operc. normale. — Long. $9^{1}/_{2}$, diam. 4 mill. Ap. c. perist. $3^{1}/_{4}$ mill. longa. (Spec. max. illyrica.) — Speciminum minorum (Salisburgens.) long. 7, diam. $3^{1}/_{3}$ mill. (Coll. Nr. 222.)

Cyclostoma patulum b Drap. Tabl. d. Moll. p. 39.
— *maculatum Drap.* Hist. p. 39. t. 1. f. 12. *)
— — *Sturm* Fauna VI. H. 4. Taf. 3.
— — *C. Pfeiff.* Naturgesch. III. p. 43. t. 7. f. 30. 31.
— — *Rossm.* Icon. VI. p. 51. t. 28. f. 399. 400. **)
— — *Pfr.* in Wiegm. Arch. 1841. I. 225.
— — *Dupuy* Moll. du Gers p. 64. N. 3.
— — *Mermet* Moll. pyrén. p. 73. N. 3.
— — *Schmidt* Krain. Conchyl. p. 11.
— — *Held* Wassermoll. Bayerns p. 22.
— — *Chemn.* ed. II. N. 212. p. 188. t. 26. f. 13—15. 25—27.
— *turriculatum* a et c *Menke* Syn. ed. II. p. 40.
— *maculata Desh.* in Lam. hist. VIII. p. 373. N. 45. ***)
Helix septemspiralis Razoum. (Stud. Verz. p. 12.)
Turbo maculatus Wood Ind. Suppl. t. 6. f. 11.
Pomatias Studeri β Hartm in Neue Alpina I. p. 214. (ex parte.)
— *maculatum Jan* Catal. p. 6.
— — *Strobel* Malacol. Trent. p. 17.
— *maculata Trosch.* in Zeitschr. f. Mal. 1847. p. 43.
— *maculatus Pfr.* ibid. p. 110 et Consp. N. 443.
— — *Gray* Catal. Cycloph. p. 61. N. 2.

Habitat in Germania meridionali, Helvetia, Gallia, Illyria, Hispania.

*) T. oblongo-conica, longitudinaliter convexe striata, serie macularum notata; peristomate dilatato, patulo, plano. (Drap. l. c.)

**) T. subimperforata, turrita, sordide lutescens, faciis rufo-maculatis, subtribus, costulata, subventricosa; apertura rotundata; peristomate ampliato, utrimque subauriculato; palato incrassato, peristoma reduplicante; operculo cartilagineo, immerso. — Alt. $3^{1}/_{2}$—4, lat. $1^{1}/_{2}$'''; anfr. 8. (Rossm. l. c.)

***) Espèce bien distincte du *Cycl. patulum.* On la reconnait surtout à l'échancrure de la partie extérieure de son péristome vers la base de la columelle. — Long. 10—12 mill. (Desh. l. c.)

5. **P. patulus Draparnaud.** 496

T. subimperforata, attenuato-turrita, nitidula, violacescenti-fusca; spira turrita, sursum attenuata, acutiuscula, glabra; anfr. 8—10 convexi, medii costulati, 2 ultimi sublaevigati, ultimus teres; apertura verticalis, subrotunda; perist. duplex: internum breviter porrectum, externum tenue, dilatatum, expansum, utrinque subauriculatum, auricula columellari anfractum penultimum tangente. — Operc. normale. — Long. 11, diam. $3\frac{1}{2}$ mill. Ap. c. perist. $3\frac{1}{4}$ mill. lata. (Spec. max.) Speciminum minorum long. $7\frac{1}{2}$, diam. 3 mill. (Coll. Nr. 223.)

Cyclostoma patulum Drap. Tabl. d. Moll. p. 39. N. 2.
— — *Drap.* Hist. p. 38. t. 1. f. 9. 10. *)
— — *Rossm.* Icon. VI. p. 52. t. 28. f. 401—403. **)
— — *Mermet* Moll. pyréu. p. 73. N. 2.
— — *Schmidt* Krain. Conch. p. 11.
— — *Chemn.* ed. II. N. 211. p. 188. t. 26. f. 10—12.
— — (Licina) *Mörch* Cat. Conch. p. 8. n. 200.
— *patula Lam.* Hist. VI. p. 149. N. 27. Ed. *Desh.* VIII. p. 362. N. 26. ***)
— *turriculatum b Menke* Syn. ed. II. p. 40.
— *maculatum* var. patulum *Fitzing.* Syst. Verz. p. 115.
Pomatias Studeri β Hartm. in Neue Alpina I. p. 214. (ex parte.)
— *patulum Jan* Catal. p. 6.
— — *Strobel* Malac. Ungherese p. 33.
— *patulus Pfr.* in Zeitschr. f. Mal. 1847. p. 110 et Consp. N. 444.
— — *Gray* Catal. Cycloph. p. 62. N. 5.
β? — *Henricae Strobel* Malac. Trentina p. 18. †)

Habitat in Gallia meridionali, nec non in Illyria, provincia Austriae litterali, Italia, Hispania, Hungaria (Strobel).

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*) T. oblonga, conica, cinerea, longitudinaliter convexe striata Peristomate dilatato, patulo, plano. — Gualt. t. 4. f. H. (Drap. l. c.)

**) T. subimperforata, attenuato-turrita, lutescenti-cinerea, capillaceo-costulata; apertura rotunda; perist. ampliato, subduplici, dilatato, utrimque subauriculato; operculo immerso. — Alt. $2\frac{1}{2}$ - $3\frac{1}{2}'''$; lat. $1'''$; anfr. 8. (Rossm. l. c.)

***) T. cylindraceo-attenuata, longitudinaliter striata, cinereo-fusca; anfractibus convexis; labro margine albo, reflexo. — Long. $3\frac{1}{2}'''$. (Lam. l. c.)

†) T. superficialiter umbilicata, turrita; anfr. 8—10 convexiusculi; superiores politi, tenues, cornei; medii regulariter albo-costulati, solidi, cinerei; inferiores subleves, solidiores, cinerei; ultimus circa umbilicum subcarinatus, sub carina planus; apertura rotundata; palatum jecinoris colore, nunquam incrassatum; perist. continuum, duplex; margo ejus interior circularis, simplex, breviter expansus, jecinoris colore; exterior biauriculatus, simplex, expansus (nunquam reflexus), albus. — Alt. $7\frac{1}{2}$—11, diam. 3—4 mill. —

497 6. **P. Porroi Strobel.** †

T. subimperforata, turrita, cinereo-fulva, regulariter costata; costae altae strictae, late distantes, albidae; apertura rotundata, albo-lurida; perist. subdirectum (quasi verticale) duplex, exterius utrinque auritum, reflexum aut patulum, interius continuum, affixum, hebes; palatum haud incrassatum; operculum cartilagineum, concentrice annulatum (?) concavum, gilvum immersum; anfr. valde convexi, ultimi dimidium laeve, ad peristoma pallide badium, fasciis plus minusve conspicuis ornatum. — Long. 10, lat. 4 mill.; anfr. 8. — Minor: long. 7, lat. $3^1/_2$ mill.; anfr. 7. (Strobel.)

Pomatias Porro Strobel Note malacol. Valbremb. p. 22.
— *Porroi Pfr.* Consp. N. 445.

Habitat in vallibus Serina et Torta Lombardiae.

§. 2.

498 7. **P. striolatus Porro.**

T. perforata, turrito-conica, tenuiuscula, confertim costulato-striata (interjectis costis elevatioribus), pallide cornea, rufo-trifasciata: fasciis 2 superis interruptis; spira regulariter conica, obtusiuscula; anfr. 8 convexi, ultimus subteres; apertura obliqua, ovali-rotundata; perist. simplex, interruptum, undique breviter expansum. — Operc. normale. — Long. $8^3/_4$, diam. 4 mill. Ap. c. perist. 3 mill. lata. (Coll. Nr. 224.)

Cyclostoma turriculatum Phil. Enum. Sicil. I. p. 144. *) Nec Menke.
— *striolatum Phil.* Sicil. II. p. 119. t. 21. f. 7. **)
— — *Sow.* Thes. N. 161. p. 148. t. 31. f. 286? ***)

Valle dei Ronchi presso Ala; monte Armentera presso Borgo di Valsugana. — Questo Pomatias é forse una varietà (seriale o geografica) del *P. patulum Drap.*, comune nella valle dell 'Isonzo ed in tutto l'Illirio. (Strobel l. c.)

*) Testa fere 5''' longa, $2^1/_4$''' lata, turrita; anfr. 7—8 convexi, suturis profundis distincti, cinerei, lineis longitudinalibus albis eleganter striato-costati; apertura suborbicularis; labrum album, dilatatum, planum, patentissimum; umbilicus angustissimus, plerumque a labro reflexo omnino clausus. Color cinereus, saepe maculae rufae quadratae triseriatae testam adornant, serie suprema sutura vicina, altera mediana, tertia inferiore in anfractu ultimo tantum conspicua. (Philippi l. c.)

**) T. subimperforata, turrita, lutescenti, cornea, argute costulata; anfractibus valde convexis; peristomate amplificato, dilatato, utrinque subauriculato. (Philippi l. c.)

***) T. acuminato-pyramidali, tenui, subfusca, fasciis interruptis fuscis; anfr. $7^1/_2$ subrotundatis, transversim oblique tenerrime striatis; apertura sub-

Cyclostoma striolatum Chemn. ed. II. N. 210. p. 187. t. 26. f. 16—18.
— *Philippii A. Braun* mss.?
Pomatias striolatum Porro in Revue zool. 1840. p. 106. *)
— — *Villa* Disp. syst. p. 59.
— *striolatus Pfr.* in Zeitschr. f. Mal. 1847. p. 110; et Consp. N. 446.
— — *Gray* Catal. Cycloph. p. 63. N. 7.

Habitat in Italia et Sicilia.

8. **P. cinerascens Rossmässler.** 499

T. subperforata, turrita, oblique et subarcuatim costata, opaca, fusculo-cinerea; spira regulariter attenuata, apice cornea, acutiuscula; anfr. 8 convexi, ultimus teretiusculus; apertura obliqua, circularis; perist. simplex, vix expansiusculum, marginibus approximatis, callo tenui junctis, columellari reflexo, non auriculato. — Operc.? — Long. $7^1/_4$, diam. 3 mill. Ap. $2^2/_5$ mill. lata. (Coll. Nr. 225.)

Cyclostoma cinerascens Rossm. Icon. VI. p. 53. t. 28. f. 406. (*canescens* in tab.) **)
— — *Chemn.* ed. II. N. 213. p. 190. t. 26. f. 34—36.
— *rude Ziegl.*, *Menke* Syn. ed. II. p. 40.
— *brevilabre Parr.*, *Anton* Verz. p. 54. N. 1962.
Pomatias cinerascens Villa Disp. syst. p. 28.
— — *Pfr.* in Zeitschr. f. Malak. 1847. p. 110; et Consp. N. 447.
— — *Gray* Catal. Cycloph. p. 62. N. 4.

β. Peristomate paulo latiore:
Cyclostoma turgidulum Parr. } teste Anton.
— *latilabre Schmidt* }

Habitat in Dalmatia et Croatia? (Coll. Anton.)

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circulari, postice subangulata, peritremate tenui, reflexo; umbilico parvo. (Sow. l. c.) — An ex sententia Cl. Gray potius ad *C. maculatum Drap.* referendum?

*) T. perforata, turrita, luteo-fuscula, maculis brunneis albidisque alternis insignita, et in triplici serie dispositis, una cervicalis, altera carinalis, postrema suturalis; superficie striis argutis, crebris, diagonaliter dispositis ornata. Apertura rotundata, labio vix reflexo, auriculis nullis. Operculo viridi, teres. — Alt 9 mill. — Genua. (Porro l. c.)

**) T. subperforata, turrita, fusculo-cinerea, argute costulata; anfr. 8 valde convexis; apertura circulari, obliqua; peristomate sejuncto, reflexiusculo, simplici, acuto, exauriculato. — Alt. $3-3^1/_3$; lat. $1^1/_3'''$. (Rossm. l. c.)

500 9. **P. scalarinus Villa.**

T. subimperforata, turrita, oblique et confertim costata, cinerascenti-cornea, maculis rubiginosis obsolete biseriatis ornata; spira subventrosa, apice acutiuscula; anfr. 8—9 convexi, ultimus teres; apertura subobliqua, ovali-rotundata; perist. subduplex: internum breve, externum expansum, patens, margine columellari obsoletissime auriculato. — Operc. normale. — Long. 8, diam. 3 mill. Ap. c. perist. $2^{2}/_{5}$ mill. lata. (Coll. Nr. 226.)

Pomatias scalarinum Villa Disp. syst. p. 58. *)
— *scalarinus Pfr* in Zeitschr. f. Mal. 1847. p. 110; et Consp. N. 448.
— — *Gray* Catal. Cycloph. p. 63. N. 8.
Cyclostoma scalarinum Pfr. in Chemn. ed. II. N. 214. p. 190. t. 26. f. 19—21.

β. Testa minore; long. 6, diam. $2^{2}/_{5}$ mill.
Cyclostoma cinerascens F. Schmidt in sched. Nec Rossm.

γ. Testa sinistrorsa, rarissima:
Cyclostoma scalarinum var. Chemn. l. c. f. 22—24.

Habitat in Istria et Dalmatia.

Obs. Praeter *Diplommatinam Huttoni* specimen prope Zaule in vicinia Tergesti a me lectum sinistrorsum unicum est, quod e familia Cyclostomaceorum unquam sinistrorsum vidi.

501 10. **P. gracilis Küster.**

T. imperforata, turrita, oblique costata (interstitiis costis filaribus multo latioribus), corneo-cinerascens, fere absque nitore; spira turrita, apice acuta, nigricanti-cornea; anfr. 8 perconvexi; apertura subobliqua, ovali-rotundata; perist. simplex, marginibus distantibus, callo tenui junctis, dextro breviter expanso, columellari a medio sursum exciso. — Operc. normale. — Long. 6, diam. $2^{1}/_{2}$ mill. Ap. c. perist. 2 mill. lata. (Coll. Nr. 227.)

Cyclostoma gracile Küster in Chemn. ed. II. N. 215. p. 291. t. 26. f. 28—30.
Pomatias gracilis Pfr. in Zeitschr. f. Mal. 1847. p. 110; Consp. N. 449.
— — *Gray* Catal. Cycloph. p. 63. N. 9.

Habitat prope Almissa Dalmatiae (Küster).

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*) T. subimperforata, turrita, ferruginea, argute oblique-costulata, anfractibus 9 convexis, mediis et ultimis maculis rubigineis duplici serie exornatis; apertura rotundata; peristomate reflexo utrimque subauriculato; operculo immerso subcartilagineo. Alt. 8, lat. 3 mill. — Dalmatia. (Villa l. c.)

XXVII. Realia Gray.

Operculum tenue, corneum, paucispirum. — Testa turrita, sublaevigata; apertura ovalis; peristoma continuum, duplex.

Realia Gray Syn. Brit. Mus. 1840; Ed. 1842. p. 91; Proc. Zool. Soc. 1847. p. 182. n. 525 (Typus: spec. nova) et 1850. Catal. Cycloph. p. 63. (exclusis speciebus plurimis.)

— *Pfr.* in Zeitschr. f. Mal. 1851. p. 175; Consp. p. 47.

1. R. Egea Gray. 502

T. subperforata, turrita, solidula, epidermide distanter plicatula, fusca, vix nitidula, induta; spira turrita, apice acutiuscula; sutura mediocris, plicata; anfr. 6½ convexiusculi, ultimus obtuse carinatus, infra carinam fascia saturate castanea ornatus; apertura parum obliqua, ovalis; perist. duplex: internum continuum, expansiusculum, superne angulatum, externum subinterruptum, dilatatum, campanulato-incurvatum. — Operc. typicum. — Long. 7½, diam. 4 mill. Ap. intus 2½ mill. longa. (Coll. Nr. 228.)

Realia Egea Gray in Proc. Zool. Soc. 1849. p. 167 *); et Catal. Cycloph. p. 64. N. 9.

— — *Pfr.* Consp. N. 450.

Cyclostoma Egea Pfr. in Chemn. ed. II. N. 304. t. 40. f. 17. 18.

Habitat Auckland Novae Seelandiae.

Obs. Reliquae species a Cl. Gray cum dubio huc relatae (praeter *C. Cattaroense Pfr.* olim) genus maxime naturale: *Omphalotropidem* constituunt.

2. R.? Gutta Shuttleworth. † 502½

T. globoso-ovata, laevis, nitidiuscula, pellucida, flavorufescens; spira elata; anfr. 3½—4 convexi; sutura profunda; apertura semicircularis; perist. simplex, acutum, rectum, margine columellari callo nitidissimo effuso ornato. — Alt. et lat. vix ultra 2½ mill. (Sh.)

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*) Shell ovate, pale brown, covered with a dull brown periostraca marked with elevated, transverse, membranaceous ridges rather fringed on the edge; apex rounded; whorls convex, rounded in front, and with a deep brown band round the axis; axis scarcely perforated; mouth ovate; peristome reflexed, sharp-edged, with a thin, sharp-edged, slightly-raised internal peristome. — Length 2½ lines. (Gray l. c.)

Hydrocaena Gutta Shuttlew. Diagn. neuer Moll. N. 1. p. 11.

Habitat consortio *Helicis Clymenae*, *Pupae castaneae*, etc. sub saxis udis in Teneriffa; var. minor occurrit in insula Palma.

Obs. „*Cycl. minutissimo Sow.* et *Cattaroensi Pfr.* affine, nec Cyclostomati, nec Omphalotrope Pfr. adscribendum.“

XXVIII. Omphalotropis Pfr.

Operculum tenue, corneum, paucispirum. Testa perforata vel anguste umbilicata, turrita vel globoso-turbinata, circa perforationem carinata; apertura ovalis; peristoma disjunctum, rectum vel expansum.

Omphalotropis Pfr. in Proc. Zool. Soc. 1851.
— *Pfr.* in Zeitschr. f. Malak. 1851. p. 176; Consp. p. 48.
Hydrocenae species dubiae *Pfr.* in Zeitschr. f. Mal. 1847. p. 112.
Realiae species *Gray* Catal. Cycloph. p. 63.
Cyclostomatis species *Auctt.*

Conspectus specierum.

A. Turritae vel oblongo-conicae . . . §. 1. Nr. 1—6.
B. Globoso-conicae . . . . §. 2. — 7—14.

§. 1.

503 1. **O. hieroglyphica Férussac.**

T. perforata, turrita, tenuiuscula, rubello-albida, corneo strigata et marmorata; spira turrita, apice acuta; anfr. 9 planiusculi, ultimus $^1/_3$ longitudinis non aequans, basi juxta perforationem non perviam carina prominente, arcuata munitus; apertura parum obliqua, truncato-ovalis, basi subangulata, intus rubella; perist. simplex, rectum, marginibus distantibus, columellari reflexiusculo. — Operc. normale. — Long. 9, diam. $3^1/_3$ mill. Ap. $2^1/_2$ mill. longa, 2 lata. (Coll. Nr. 229.)

Helix hieroglyphica Féruss. Mus.!
Bulimus hieroglyphicus Pot. et *Mich.* Gal. Douai I. p. 144. t. 14. f. 21. 22.
Cyclostoma hieroglyphicum Pfr. in Zeitschr. f. Mal. 1846. p. 86.
— — *Chemn.* ed. II. N. 204. p. 183. t. 30. f. 7—9.
Hydrocena? hieroglyphica Pfr. in Zeitschr. f. Mal. 1847. p. 112.

Realia hieroglyphica Gray Catal. Cycloph. p. 64. N. 7.
Omphalotropis hieroglyphica Pfr. in Proc. Zool. Soc. 1851; Consp. N. 451.

Habitat . . .?

2. O. pupoides (Bulimus) Anton. 504

T. subperforata, oblongo-turrita, striatula, nitidula, lutescenti-cornea; spira sursum attenuata, acutiuscula; anfr. 8 vix convexiusculi, ultimus subcarinatus, circa perforationem compressus; apertura fere verticalis, rotundato-ovalis; perist. simplex, marginibus disjunctis vel callo tenuissimo junctis, dextro subsinuoso, columellari reflexiusculo. — Operc. membranaceum. — Long. 6, diam. $2^1/_3$ mill. Ap. vix 2 mill. longa. (Coll. Nr. 230.)

Bulimus pupoides Anton Verzeichn. p. 42. N. 1535. *)
Hydrocena Oparica Pfr. in Zeitschr. f. Mal. 1847. p. 112.
Cyclostoma pupoides Chemn. ed. II. N. 205. p. 183. t. 30. f. 13—15.
Realia oparica Gray Catal. Cycloph. p. 64. N. 8.
Omphalotropis pupoides Pfr. in Proc. Z. S. 1851; Consp. N. 452.

Habitat in insula Opara.

3. O. terebralis Gould. † 505

T. parva, turrita, acuminata, flava vel dilute cornea, laevigata, umbilico rimato circumvallato perforata; spira elevata, acuta; anfr. 6—8 convexiusculi, antice subangulati, sese partim obtegentes; sutura impressa; apertura subrotunda, postice angularis, campanulata; perist. simplex, anfractui penultimo longe adnatum. — Lat. $^1/_{10}$, alt. $^1/_4$ poll. (G.)

Cyclostoma terebrale Gould in Proc. Bost. Soc. 1847. p. 206 **) et Exped. shells p. 39. Ed. 1851. p. 106. f. 120.
— — *Petit* in Journ. Conch. 1850. I. p. 47.
Omphalotropis terebralis Pfr. in Proc. Zool. Soc. 1851; Consp. N. 453.

Habitat in insulis Taheiti et Eimeo.

* * *

*) T. elongato-conoidea, spira perlonga; anfr. $6^1/_2$—7 plani, sutura acuta separati, ultimus $^1/_4$ longitudinis formans, penultimo paulo angustior; nitida, fuscula, perforata; apertura subrotunda, anfractu ultimo vix modificata; perist. acutum. — Lat. $1^1/_4$'''. Alt. $2^1/_2$'''. (Anton l. c.)

**) Distinguished from allied species by its acuminated spire, angular, imbricated whorls and expanded aperture. It bears a general ressemblance to *Pupa fallax Say.* (Gould l. c.)

506 4. **O. rosea Gould.**

T. vix perforata, ovato-subturrita, solida, laevigata, rosea; spira elongato-conica, sursum lutea, apice obtusa; anfr. 6 planiusculi, ultimus spira brevior, basi rotundatus, juxta perforationem carina filiformi munitus; apertura obliqua, ovalis; perist. subincrassatum, rectum, marginibus conniventibus, callo junctis. — Operc.? — Long. 8, diam. $4^1/_2$ mill. Ap. 3 mill. longa, 2 lata. (Mus. Cuming.)

Cyclostoma roseum Gould in Proc. Bost. Soc. 1847. p. 205.*) Exped. shells p. 39. Ed. 1851. p. 105. f. 121.
— — *Petit* Journ. Conch. 1850. I. p. 47.
Omphalotropis rosea Pfr. in Proc. Z. S. 1851; Consp. N. 454.

Habitat in insulis Feejee.

507 5. **O. vallata Gould.** †

T. parva, solida, elongato-conica, lucida, fusco-cornea, spirae anfr. 6 convexi, subangulati, ultimus costa valida umbilicum ambiente munitus; sutura profunda; apertura oblique ovata; perist. simplex, continuum, campanulatum. — Lat. $^1/_8$, alt. $^1/_5$ poll. (G.)

Cyclostoma vallatum Gould in Proc. Bost. Soc. 1847. p. 206. Exped. shells p. 39. Ed. 1851. p. 107. f. 122.
— — *Petit* Journ. Conch. 1850. I. p. 47.
Omphalotropis vallata Pfr. in Proc. Zool. Soc. 1851; Consp. N. 455.

Habitat in insula Tonga Tabou.

508 6. **O.? scitula Gould.** †

T. parva, elongato-conica, tenuis, rufo-cornea, striis incrementi tenuibus solum insculpta, arcte umbilicata; spira elevata, anfr. 6—7 rotundatis, supernis subangulatis; sutura profunda; apertura rotundato-ovata, parva, trientem longitudinis adaequans; perist. simplex, pallidum. — Long. $^1/_5$, lat. $^1/_{10}$ poll. (G.)

Cyclostoma scitulum Gould in Proc. Bost. Soc. 1847. p. 206.**) Exped. shells p. 39. Ed. 1851. p. 108. f. 123.

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*) T. parva, solida, elevato-conica, glabra, pallide rosea; spira acuta; anfr. 6 convexiusculis, supra arcte tabulatis; sutura bene impressa; apertura spiram haud aequans, ovata; perist. eversum, acutum; fissura umbilicalis costa circum-abiente finita. — Lat. $^1/_5$, alt $^7/_{20}$ poll. (Gould l. c.)

**) Almost exactly like *Amnicola Sayana Anth.* It is larger and more ventricose than *C. vallatum* and is distinguished from *C. terebrale* by its less slender form and unexpanded lip. (Gould l. c.)

Cyclostoma scitulum Petit Journ. Conch. 1850. I. p. 47.
Omphalotropis? scitula Pfr. in Proc. Zool. Soc. 1851; Consp. N. 456.

Habitat in insulis Taheiti, Eimeo, Manua.

§. 2.

7. O. aurantiaca Deshayes. 509

T. perforata, ovato-conica, solidula, concentrice minutim et confertim striata, rubra; spira conica, acuta; anfr. 6—7 vix convexiusculi, ultimus longitudinaliter striatus, medio linea elevata subcarinatus, basi juxta perforationem linea altera elevata munitus; apertura obliqua, ovalis, intus concolor; perist. subincrassatum, album, expansiusculum, marginibus disjunctis, columellari simplice, superne dilatato. — Operc. normale. — Long. $9\frac{1}{2}$, diam. $5\frac{1}{2}$ mill. Ap. $4\frac{2}{3}$ mill. longa, $3\frac{1}{2}$ lata. (Coll. Nr. 231.)

Cyclostoma aurantiaca Desh. in Bélanger voy. Zool. p. 416. t. 1. f. 16. 17.
— — *Desh.* in Lam. hist. VIII. p. 373. N. 43. *)
Nec Schum.
— *aurantiacum Müll.* Synops. p. 38.
— *Belangeri Pfr.* in Zeitschr. f. Mal. 1846. p. 82.
— — *Chemn.* ed. II. N. 201. p. 181. t. 30. f. 1—3.
Hydrocena? Belangeri Pfr. in Zeitschr. f. Malak. 1847. p. 112.
Realia Belangeri Gray Catal. Cycloph. p. 63. N. 2.
Omphalotropis aurantiaca Pfr. in Proc. Z. S. 1851; Consp. N. 457.

Habitat circa Pondichery.

8. O. rubens Quoy et Gaimard. 510

T. perforata, ovato-conica, tenuiuscula, obsoletissime concentrice striata, opaca, brunneo et albido marmorata; spira conica, acuta; anfr. 7 planiusculi, ultimus a medio lineis nonnullis elevatis, basi distinctius carinatus; apertura vix obliqua, ovalis; perist. simplex, expansiusculum, albidum, marginibus conniventibus. — Operc. normale. — Long. 8, diam. $4\frac{1}{2}$ mill. Ap. 4 mill. longa, $2\frac{2}{3}$ lata. (Coll. Nr. 232.)

Cyclostoma rubens Quoy et *Gaim.* Voy. Astrol. II. p. 189. t. 12. f. 36—39. **)

*) T. crocea, elongato-conica, apice acuta, basi perforata, tenue striata; anfr. 6—7 planiusculis, ultimo ad peripheriam subangulato; apertura ovato-circulari, intus lutea, obliqua; marginibus incrassatis, albidis. — Long. 10 mill. (Desh. l. c.)

**) T. turrita, conica, perforata, carinata, apice acuta, oblique striata,

Cyclostoma rubens Desh. in Lam. hist. VIII. p. 368. N. 34. *)
— — *Chemn.* ed. II. N. 202. p. 181. t. 30. f. 10—12.
— *Rangii Pot.* et *Mich.* Gal. Douai I. p. 240. t. 24. f. 18. 19.
Hydrocena? rubens Pfr. in Zeitschr. f. Mal. 1847. p. 112.
Realia rubens Gray Catal. Cycloph. p. 64. N. 5.
Omphalotropis rubens Pfr. in Proc. Zool. Soc. 1851; Consp. N. 458.

Habitat Isle de France (Quoy, Barclay).

511 9. **O. erosa Quoy & Gaimard.** †

T. turrita, conica, perforata, apice acuta, ultimo anfractu semper erosa, violacea aut rubra; spira luteola; anfr. $5\frac{1}{2}$ convexi; apertura rubeola; perist. simplex, integrum, subovale; umbilicus canaliculatus. — Long. 4, diam. 2'''. (Q. & G.)

Cyclostoma erosa Quoy et *Gaim.* Voy. Astrol. II. p. 191. t. 12. f. 40—44.
— — *Desh.* in Lam. hist. VIII. p. 370. N. 37. *)
— *erosum Chemn.* ed. II. N. 200. p. 180. t. 30. f. 32. 33. (Ex Quoy.)
Hydrocena? erosa Pfr. in Zeitschr. f. Mal. 1847. p. 112.
Realia erosa Gray Catal. Cycloph. p. 63. N. 4.
Omphalotropis erosa Pfr. in Proc. Zool. Soc. 1851; Consp. N. 459.

Habitat in insula Guam Mariannarum.

512 10. **O. dubia Pfr.**

T. perforata, ovato-conica, sublaevigata, tenuiuscula, rubello-cornea; spira conica, acutiuscula; anfr. 6 convexiusculi, ultimus spira vix brevior, juxta perforationem subangulatus; apertura subverticalis, ovalis, basi subeffusa; perist. simplex, acutum, marginibus disjunctis, dextro recto, columellari brevissime reflexiusculo. — Operc. normale. — Long. 9, diam. 5 mill. Ap. $4\frac{1}{2}$ mill. longa, 3 lata. (Coll. Nr. 233.)

Cyclostoma dubium Pfr. in Zeitschr. f. Mal. 1846. p. 86.
— — *Chemn.* ed. II. N. 203. p. 182. t. 30. f. 4—6.

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lutea rubro variegata; anfr. 6; apertura subrotunda, alba; perist. albo, non continuo; umbilico angusto, canali crista parvimarginato formato. — Long. 4, diam. $2\frac{1}{2}$'''. (Quoy et G. l. c.)

*) T. ovato-conica, perforata, ad peripheriam carinata, apice acuta, oblique striata, lutea, rubro variegata; apertura subrotunda, alba; anfractibus senis. (Desh. l. c.)

**) T. ovato-conica, perforata, apice acuta, spira luteola; ultimo anfractu semper eroso, violaceo vel rubro; apertura rubescens, peristomate simplici, integro, subovali, umbilico canaliculato. -- Long. 10, lat. 5 mill. (Desh. l. c.)

Hydrocena? dubia Pfr. in Zeitschr. f. Mal. 1847. p. 112.
Realia dubia Gray Catal. Cycloph. p. 63. N. 6.
Omphalotropis dubia Pfr. in Proc. Zool. Soc. 1851; Consp. N. 460.

Habitat in insula Opara (H. Cuming.)

11. O. multilirata Pfr. 513

T. perforata, ovato-conica, solidula, liris elevatis acutiusculis subconfertis, mediana et basali validioribus sculpta, opaca, rubello-carnea; spira conica, acutiuscula; anfr. $5^1/_2$, superi subplani, ultimus convexior; apertura parum obliqua, angulato-ovalis; perist. simplex, rectum, marginibus approximatis, columellari superne emarginato, deorsum dilatato, reflexiusculo. — Operc.? — Long. $8^1/_2$, diam. 5 mill. Ap. 4 mill. longa, 3 lata. (Mus. Cuming.)

Cyclostoma multiliratum (Omphalotropis) *Pfr.* in Proc. Zool. Soc. 1851.
Omphalotropis multilirata Pfr. Consp. N. 461. p. 70.

Habitat in insula Mauritii (Sir David Barclay).

12. O. globosa Benson. 514

T. umbilicata, globoso-conica, tenuis, subtilissime striatula, diaphana, non nitens, cinnamomea, maculis opacis albidis subfasciatim dispositis ornata; spira conica, apice peracuta; anfr. 6, superi vix convexi, ultimus globosus, carina basali subtili, filari; apertura parum obliqua, ovalis; perist. simplex, marginibus fere contiguis, dextro perarcuato, columellari medio dilatato, patente. — Operc. tenuissimum, corneo-lutescens, extus concaviusculum. — Long. 8, diam. 5 mill. Ap. 4 mill. longa, $3^1/_3$ lata. (Coll. Nr. 234.)

Cyclostoma globosum Bens. mss. teste Barclay.
— — *Chemn.* ed. II. N. 295. t. 39. f. 14—16.
Omphalotropis globosa Pfr. in Proc. Z. S. 1851; Consp. N. 462. p. 71.

Habitat in arboribus sylvarum insulae Mauritii (Sir D. Barclay).

13. O. plicosa Pfr. 515

T. perforata, ovato-conica, tenuis, longitudinaliter confertim plicata, sericea, rubello-cornea; spira conica, acuta; anfr. 5 convexiusculi, ad suturam crenulati, ultimus spiram subaequans, rotundatus, circa perforationem angustam compresse subcarinatus; apertura vix obliqua, ovalis; perist. simplex, rectum, marginibus approximatis, columellari reflexiusculo. —

Operc. pallidum, extus concaviusculum. — Long. 6, diam. 4 mill. Ap. 3 mill. longa, $2^1/_3$ lata. (Coll. Nr. 235.)

Cyclostoma plicosum (Omphalotropis) *Pfr.* in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 383. t. 46. f. 41. 42.
Omphalotropis plicosa Pfr. Consp. N. 463. p. 71.

Habitat . . . ?

516 14. **O. expansilabris Pfr.**

T. vix perforata, ovato-conica, tenuis, sublaevigata, parum nitida, pallide lutea, corneo minutissime variegata et fascia 1 rufa infra medium (rarius 2) cincta; spira elevato-conica, apice acutiuscula; anfr. 6 vix convexi, ultimus medio et basi filo-carinatus; apertura obliqua, ovalis; perist. undique subaequaliter breviterque expansum, album, marginibus subdistantibus. — Operc.? — Long. $5^1/_2$, diam. 3 mill. Ap. 2 mill. longa, $1^1/_2$ lata. (Coll. Nr. 236.)

Cyclostoma expansilabre (Omphalotropis) *Pfr.* in Proc. Zool. Soc. 1851.
— — *Chemn.* ed. II. N. 296. t. 39. f. 17—19.
Omphalotropis expansilabris Pfr. Consp. N. 464. p. 71.

Habitat in fruticibus in interiore insulae Mauritii (Sir D. Barclay).

XXIX. Bourciera Pfr.

Operculum ovale, solidiusculum, corneum, anfractibus paucis rapide accrescentibus. Testa helicinaeformis; columella basi dentata; apertura ovalis; peristoma expansum.

Bourciera Pfr. in Zeitschr. f. Malak. 1851. p. 178; Consp. p. 49.
Cyclostoma (spec.) *Pfr.* olim.

Species unica:

517 1. **B. helicinaeformis Pfr.**

T. obtecte umbilicata, conoideo-globosa, solidula, striatula, parum nitens, virenti-cornea; spira parvula, conoidea, acutiuscula; anfr. 6 convexiusculi, ultimus inflatus, antice subascendens, pone columellam profunde excavatus, callosus; apertura subverticalis, angulato-ovalis; columella subverticalis, retrorsum in dentem acutum desinens; perist. incrassatum, album, undi-

que late expansum, reflexiusculum. — Operc. typicum. — Diam. maj. $17^1/_2$, min. 13, alt. 11 mill. (Mus. Cuming.)

Cyclostoma heliciniforme Pfr. in Proc. Zool. Soc. 1851.
— — *Chemn.* ed. II. N. 224. t. 32. f. 8—10.
Bourciera helicinaeformis Pfr. Consp. N. 465. p. 71.

Habitat in valle Yaraqui reipublicae Aequatoris (Bourcier).

Cyclostomacea sedis omnino incertae, vel dubia.

1. Cyclostoma cuspidatum Benson. 518

T. umbilicata, acuminato-conoidea, oblique striata, lineis spiralibus circumdata, epidermide olivaceo-fusca; spira elongata, attenuata, apice mammillari; anfr. 5, primi convexi, ultimus et penultimus superne convexiusculi, lira unica praediti, ultimus subtus convexus, peripheria carinata, carina lamellato-fimbriata, basi 3-lirata, lira subumbilicari fimbriata; apertura perobliqua, subcircularis, superne subangulata, dimidium longitudinis aequans; perist. tenue, acutum, margine columellari expansiusculo; umbilicus mediocris, profundus, anfractus plures exhibens. — Operc.? — Diam. maj. 6, min. 5, alt. 4 mill. (B.)

Cyclostoma cuspidatum Bens. in Ann. and Mag. VIII. 1851. p. 189.
— — *Chemn.* ed. II. Cycl. N. 407. t. 49. f. 21—23.

Habitat ad apices montium Nilgherries (Jerdon).

2. Cyclostoma marginatum Chemnitz. 519

T. alba, subovato-rugosa, perforata, anfractibus transversis marginatis et striatis. (Chemn.)

Turbo marginatus Chemn. Conch. IX. P. 2. p. 60. t. 123. f. 1075 α β. *)
— *limbatus Gmel.* Syst. p. 3606. N. 105. **)
Cyclostoma murrhinum Menke Synops. ed. II. p. 39. (ex citat.)

Habitat Coromandel.

Obs. An potius *Bithiniae* species?

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*) Testa striis subtilibus et longitudinalibus scabra et rugulosa, striis crebris acutis transversis quasi costata; umbilicus parvus; apertura circularis; operculum testaceum, album, orbiculare, striis concentricis notatum. (Chemn. l. c.)

**) Testa subovata rugosa perforata alba. (Gmel. l. c.)

520 3. Cyclostoma patera Pfr.

T. latissime umbilicata, solidula, discoidea, liris latis granulatis, interpositis linearibus sculpta, epidermide olivaceo-fusca obducta; spira plana; sutura subcanaliculata; anfr. $4^{1}/_{2}$ planulati, ultimus medio carinis 2 filiformibus (interposito sulco) munitus, basi convexus, circa umbilicum pateraeformem subangulatus; apertura verticalis, subangulato-rotundata; perist. simplex, rectum, marginibus approximatis. — Operc.? — Diam. maj. 10, min. 8, alt. $2^{1}/_{2}$ mill. (Mus. Cuming.)

Cyclostoma patera Pfr. in Proc. Zool. Soc. 9 Dec. 1851.
— — *Chemn.* ed. II. N. 350. t. 43. f. 23—25.
— — *Pfr.* Consp. N. 468. p. 72.

Habitat . . .?

Obs. *Solarii* quasi faciem offert; an revera Cyclostomaceis adnumerandum?

521 4. Cyclostoma sarritum Benson. †

T. subimperforata, ovato-conica, lineis spiralibus crebris, sulcis angustis divisis, munita, ferrugineo-albida, apice rubens, sutura bene impressa, apice obtuso; anfr. 4 valde convexi; apertura vix obliqua, ovata, $^{3}/_{8}$ longitudinis aequans, perist. acuto, expansiusculo, marginibus disjunctis, columellari superne angulato, pariete calloso. — Long. 2, diam. $1^{1}/_{4}$ mill. (B.)

Cyclostoma sarritum Bens. in Ann. and Mag. 1851. VIII. p. 188.

Habitat in muscis arborum vallis profundae prope Cherra Poonjee, in montibus Garo dictis, praeter fines Orientales provinciae Bengaliae (Benson).

521ª [illegible]

522 5. Cyclostoma? crenatum Linn. †

T. subcancellata, turrita, anfractibus contiguis, supra crenatis. (Linn.)

Turbo crenatus Linn. Syst. nat. Ed. X. p. 765. n. 550.
— — *Linn.* Mus. Lud. Ulr. p. 659. n. 353. *)
— — *Linn.* Syst. Ed. XII. p. 1238. n. 633.
— — *Schröt.* Einl. II. p. 39. n. 29. **)

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*) Testa habitu *Turbinis Clathri*, turrita, alba. Anfr. 8 teretes, contigui, ubi cohaerentes crenati. Cingula saepe obtusa, descendentia oblique in plalanges duas. Apertura annularis, margine gibbo. (Linn. l. c.)

**) Long. fere $^{3}/_{4}$ poll. (Schroet. l. c.)

Turbo crenatus Gmel. Syst. p. 3604. n. 65.
— — *Chemn.* Conch. Cab. XI. p. 156. t. 195 A. f. 1880. 1881. *)

Habitat . . . ?

Obs. An Chondropomatis spec.? An potius Scalariae?

6. **Cyclostoma? corneum Linn.** † 523

T. umbilicata rotundata acutiuscula: anfractibus teretiusculis, decussato-striatis, apertura reflexa. (Linn.)

Turbo corneus Linn. Syst. nat. Ed. X. p. 765. n. 554.
— — *Linn.* Mus. reg. Lud. Ulr. p. 660. n. 355. **)
— — *Linn.* Syst. nat. Ed. XII. p. 1238. n. 637.
— — *Schröt.* Einl. II. p. 42. n. 33.
— — *Gmel.* Syst. p. 3605. n. 69.

Habitat . . . ?

7. **Cyclostoma? reflexum Linn.** † 524

T. umbilicata convexo-prominula, anfractibus teretibus substriatis, apertura reflexa. (Linn.)

Turbo reflexus Linn. Syst. nat. Ed. X p. 765. n. 555.
— — *Linn.* Syst. Ed. XII. p. 1238 n. 638.
— — *Schröt.* Einl. II. p. 42. n. 34.
— — *Gmel.* Syst. p. 3605. n. 70.

Habitat in Europa australi.

Obs. Haec species a nonnullis ad *Cyclostoma elegans* refertur.

8. **Cyclostoma lunulatum Müller.** † 525

T. cylindracea alba reticulata; apertura remota. — Long. 7, lat. $4\frac{1}{2}$ lin. — Testa dura, pellucida, eleganter striata, seu reticulata, uti *Nerita elegans*, striae vero minus convexae. Anfractus 5, fasciis 4 vel 5 lunularum rufescentium, vel si mavis lineis transversim serpentibus notati, maximus minus ventricosus, quam in congeneribus. Juncturae spirarum punctis elevatis sive papillis parvis distinctae; hae partem anfrac-

*) Testa turrita, alba, margine superiore anfractuum crenato, noduloso; apertura rotunda, annulo cincta, basi carinata. — Operculum tenue, pellucidum, mellei coloris. — Ex insulis Antillis (Chemn. l. c.)

**) Testa conico-oblonga, pellucida, testacea s. cornea. Anfractus teretes, decussatim vix manifeste striati, parte $\frac{1}{3}$ contigui. Apertura margine reflexo, intus laevis. Umbilicus spiralis, hians usque ad apicem. (Linn. l. c.)

tus, qua vicino adjacet, quasi crenulatam reddit. Apertura circinnata ultra anfractum vicinum porrecta. Foramen uti in *N. Licinia.* Lunulae rufae evanescunt. — In Museo Fabriciano. (Müll.)

Nerita lunulata Müll. Hist. verm. II. p. 180. n. 366.
Turbo lunulatus Gmel. Syst. p. 3605. n. 72.

Habitat . . .?

Obs. Cl. Mörch hanc speciem cum *C. Auberiano Orb. (dentato Say)* identicam putat; descriptio Mülleriana ad plures quidem species satis congrua est, optime autem ad *C. decussatum Lam.* (N. 262) referenda videtur.

Cyclostomacea ex icone modo mihi nota.

Cyclostoma agglutinans Hombr. & Jacq. Voy. Pol Sud. Moll. t. 12. f. 7—10. (Oceania.)
— *albida H. & J.* ibid. t. 12. f. 25—28. (Samoa.)
— *bulimoides H. & J.* ibid. t. 12. f. 37—39. (Hogoleu.)
— *exigua Hombr. & Jacq.* ibid. t. 12. f. 1—3. (Mangareva.)
— *Garreli Souleyet* in Voy. Bonite. Moll. t. 30. f. 33—37.
— *incisa Hombr. & Jacq.* l. c. t. 12. f. 11—15. (Hogoleu.)
— *oceanica H. & J.* ibid. t. 12. f. 4—6. (Vavao.)
— *pellucida H. & J.* ibid. t. 12. f. 29—33. (Ins. Salomon.)
— *Tourannense Soul.* Voy. Bonite t. 30. f. 28—32.
— *ventricosa Hombr. & J.* l. c. t. 12. f. 34—36. (Taiti.)

Nomine modo mihi nota:

Cyclostoma aspersum Phil., Jay Catal. 1850. p. 253.
— *australe Gray*, Forb. in Voy. Rattlesnake. App. p. 375.
— *hyalaeum Sow.*, Mouss. jav. Moll. p. 58.
— *nodulosum Gray*, Jay Catal. 1850. p. 258.
— *protractum Ziegl.*, Jay ibid. p. 258.
— *rugatum* . . . . (Gould Exped. shells p. 38.)
— *Sayanum Anth.*, Jay Catal. 1850. p. 259.

Appendix.

Cyclostomacea fossilia.

Cyclostoma

abbreviata Mathn. 1832.
Alberti Dujard.
Aquensis Mathn.
Arnoudii Michd. 1839.
Arnouldi Boissy v. Arnoudi
bisulcatum (Ziet.?) Braun.
bulimoides Mathn. 1832.
cancellatum Grat.
conoidea Boissy.
Coquandi Mathn.
cornu pastoris Lam. 1804.
crassilabris Mathn.
crassiusculum Raht v. labellum.
decussatum Bon. 1840
delicatum Phil.
disjuncta Math. 1832.
dolium Thomae 1845.
Draparnaudii Mathn.
elegans-antiquum Brongn. Desh. 9.
elongatum Serr.
excavatum Serr.
glabrum Schübl., Klein.
gregaria Bronn 1829.
heliciformis Math.
helicinaeformis Boissy.
inflata Desh.
keuperiana Hehl.
labellum Thom.
Lemani Bast.
Lunelii Mathn.
macrostoma Lam. 1804.
majus Raht = bisulcatum.
microstoma Desh.
mumia Lam. 1804.
planorbula Lam. 1804. = planorbuloides Lam.
planorbuloides Lam. 1822.
plicata Vern. 1845.
pupa Raht = dolium.
Serriana Mathn. (Serresana Bronn.)
solarium Mathn.
spiruloides Lam. 1804.
subcarinata Mich.
truncatum Brard 1811.

(XXX.) Ferussina Grateloup.

Bull. Soc. Linn. Bord. 1827. II. p. 5. — *Rang.* — *Pot.* et *Mich.* — *Gray* Catal. Cycloph. p. 64. — *Ferussacia Leufr.* 1828. — *Bronn* Nomencl. palaeont. I. p. 494. — *Strophostoma Desh.* 1828.

anostomaeformis Grat.
laevigata Bronn = anostomaeformis.
lapicida Leufr.
striata Bronn.
tricarinata Bronn.

Excludenda e familia Cyclostomaceorum.

Cyclostoma

achatinum Drap. = Paludina.
acutum Drap. = Hydrobia.
anatinum Drap. = Hydrobia.
atomus Fér. f. = Paludina.
australe Mühlf. = Stoastoma succineum.
Bialozurkense Dub. f. = Rissoa exigua.

breve Drap. = Hydrobia.
bulimoides Oliv. = Paludina.
carinata Oliv. = Lanistes.
Cattaroense Pfr. (Chemn. ed. II. p. 184. t. 30. f. 16—18; Hydrocena Sirkii Parr.; Hydrocena Cattaroensis Pfr.; Realia Cattaroensis Gray Cat. Cycl. p. 63. N. 1.) = Hydrocena.
Cincinnatiense Lea = Amnicola.
clathra Schum. = Scalaria.
concinnum Scac. = Truncatella.
contectum Mill = Paludina vivipara.
cylindricum Ant. = Cylindrella.
Duchasteli Nyst f. = Paludina.
fasciata Lam. = Cylindrella.
granulosum Grat. f. = Turbo Anthoni.
impurum Drap. = Bithinia.
lapidaria Say = Amnicola.
Leonhardi Ant. = Trochus.
marginata Say = Pupa fallax.
obtusum Drap = Valvata.
planatum Dub. f. = Paludina.
pusilla Fér. = Hydrobia acuta.
pygmaeum Michd. (Cyclostomus pygmaeus Gray Cat. Cycloph. p. 48. N. 19.) = Hydrobia.
pyramidale Fér. f. = Paludina.
rivularis Eichw. = Hydrobia?
rotundatum Dub. f. = Paludina.
scalare Dub. = Rissoa Duboisi.
semicarinata Brard f. = Paludina unicolor.
simile Drap. = Hydrobia.
subcylindricum Flem. = Truncatella.
succineum Sow. = Stoastoma.
terebra Fér. f. = Paludina.
thermarum Ranz. = Paludina.
tricarinata Say = Valvata.
truncatulum Drap. = Truncatella.
turriculata Lam. f. = Scalaria.
turritellata Lam. f. = Scalaria.
unicolor Oliv. = Paludina.
viride Drap. = Hydrobia.
vitreum Drap. = Hydrobia.
viviparum Drap. = Paludina.

Fam. II. Helicinacea.

Operculum absque ullo vestigio spirae, testaceum, crassum vel corneum, tenue (ita tamen, ut in hac familia genera bene circumscripta ex operculi substantia formari non possint), semiovale vel subtriangulare. Conferantur characteres subordinis.

Helicinae Féruss. 1821. Tabl. p. XXXIII.
— *Rang* 1829. Man. p. 128.
— *Pot.* et *Mich.* 1838. Gal. Douai I. p. 228.
Helicinidae Latreille 1825. Fam. nat. (Ed. Berth. p. 177.)
— *Gray* 1842. Syn. Brit. Mus. p. 91.
Helicinadae Guild. 1828. Zool. Journ. III. p. 528.
Helicinaceae Menke 1828. Synops. p. 22.
Helicinacea Menke 1830. Syn. Ed. sec. p. 39.
— *Pfr.* 1841. Symb. I. p. 4. (exclusa Pupina.)

Helicinacea Pfr. 1847. Zeitschr. f. Malak. p. 151.
— *Pfr.* in Chemn. ed. sec. I. 18. p. 1.
Oligyradae Gray 1847. Proc. Zool. Soc. p. 182.

Plurimi scriptores Lamarckium sequentes unicum genus *Helicinam* in hac familia admiserunt, donec Cl. Swainson (Malac. p. 336) genera nonnulla ab illo separare conatus fuerit. — Cl. Gray tandem 1842 genera tria: *Helicinam* (s. 1847 *Oligyram*), *Lucidellam* et *Alcadiam* adoptavit; praeter ea *Trochatella Swains.*, definitioni Lamarckianae haud congrua, et *Stoastoma Adams* in familia Helicinaceorum admittenda videntur.

I. Stoastoma Adams.

Operculum non spiratum, calcareum, exiliter et irregulariter lamelliferum, extus profunde concavum. Testa globoso-conica, depressa vel discoidea; apertura semiovalis vel subsemicircularis, superne et basi angulata; perist. continuum, margine dextro rotundato, sinistro stricto, basi carinulam spiralem retromittente.

Stoastoma Adams Monograph of Stoastoma 1849. p. 3. *)
— *Pfr.* in Zeitschr. f. Malak. 1849. p. 113. 1850. p. 57.
— *Petit* in Journ. Conch. 1850. II p. 179.
— *Adams* Contrib. to Conch. N. 8. p. 148. N. 9. p. 158.

Conspectus specierum.

A. Laevigatae (*Electrina Gray*) . . . §. 1. Nr. 1.
B. Spiraliter striatae vel carinatae,
a. subturbinatae . . . . §. 2. — 2—7.
b. globoso- vel conoideo-depressae . . §. 3. — 8—13.
c. discoideae . . . . §. 4. — 14—20.

§. 1.

1. **St. succineum (Cyclostoma) Sowerby.** 526

T. umbilicata, globoso-conica, tenuis, laevigata, pellucida, succinea; spira conica, acutiuscula; anfr. 6 convexiusculi, ultimus subtus excavatus; umbilicus angustus, pervius; aper-

*) Testae apertura accurate semicirculari, ora crassa; labro producto, regulariter curvato, haud reflexo; labio vix curvato; operculo calcareo, perconcavo, exile et irregulariter lamellifero. (Adams l. c.)

tura parum obliqua, semiovalis; perist. simplex, acutum, ad basin marginis columellaris appendice callosa, horizontaliter in carinam umbilicarem producta, instructum. — Operc. normale. — Diam. maj. 4¼, min. 3¾, alt. 4 mill. (Coll. Nr. 1.)

Cyclostoma succineum Sow. in Proc. Zool. Soc. 1832. p. 32. *)
— — *Th. Müll.* Synops. p. 37.
— — *Sow.* Thes. N. 51. p. 108. t. 23. f. 18. 19.
— — *Chemn.* ed. II. Cycl. N. 15. p. 24. t. 3. f. 12—14.
— *australe Mühlf.* mss. in Ant. Verz. p. 54. N. 1946.
Cyclophorus succineus Pfr. in Zeitschr. f. Malak. 1847. p. 108. N. 22.
Stoastoma succineum Pfr. in Zeitschr. f. Mal. 1849. p. 115. 1850. p. 59.
Electrina succinea Gray Catal. Cycloph. p. 30.

Habitat in insula Opara Polynesiae.

§. 2.

527 **2. St. pisum Adams.**

T. perforata, globoso-conica, liris distantibus subtilissimis spiralibus sculpta, non nitens, pallide straminea; spira conica, acuta; anfr. 5 vix convexiusculi, ultimus rotundatus; apertura axi subparallela, semiovalis; perist. simplex, vix expansiusculum, continuum, margine dextro arcuatim dilatato, basali in carinam lamelliformem, ad perforationem ascendentem, terminato. — Operc. normale. — Diam. maj. 4½, min. 4, alt. 3 mill. (Coll. Nr. 2.)

Stoastoma pisum Adams Monogr. p. 11. **)
— — *Pfr.* in Zeitschr. f. Mal. 1850. p. 59.
— — *Petit* in Journ. Conch. 1851. I. p. 83. t. 2. f. 5.

Habitat in insula Jamaica.

528 **3. St. Lindsleyanum Adams.**

T. perforata, conoidea, liris distinctis, confertis (in parte supera anfractus ultimi inaequalibus) spiralibus sculpta, opaca,

*) T. parva, orbiculato-pyramidali, laevi, succinea; anfr. 5 rotundatis; sutura distincta; apertura rotundata, margine basali interna angulata; peritremate tenui, acuto; umbilico parvo, margine carinato. — Long. ⅕, lat. $^3/_{20}$ poll. (Sow. l. c.)

**) T. subglobosa, pallide sulphurea, striis exilibus spiralibus paucis ornata; spira conica, acuta; anfr. 5 haud multum convexis; apertura subcampanulata; labro longe producto, sparsim et exile denticulato, infra auriculato; labio haud multum soluto; umbilico angusto, profundo. — Diverg. 110°; long. 3,56; lat. max. 4,7; lat. min. 4,08 mill. (Adams l. c.)

fusculo-albida; spira conica, acuta; anfr. 5 vix convexiusculi, ultimus rotundatus, basi planiusculus; apertura verticalis, semiovalis; perist. simplex, continuum, margine dextro non dilatato, basali in lamellam acutam, ad perforationem subadscendentem continuato. — Diam. maj. 3, min. $2^2/_3$, alt. $2^1/_2$ mill. (Mus. Cuming.)

Stoastoma Lindsleyanum Adams Monogr. p. 12. *)
— — *Pfr.* in Zeitschr. f. Malak. 1850. p. 60.

Habitat in insula Jamaica.

4. **St. Leanum Adams.** 529

T. subperforata, globoso-conica, spiraliter et confertissime sub lente striata, diaphana, cerina; spira exacte conica, acutiuscula; anfr. fere 5 convexiusculi, ultimus rotundatus, basi punctato-subperforatus; apertura subverticalis, ovalis; perist. simplex, continuum, rectum, margine dextro vix dilatato, columellari leviter arcuato, angulo basali obsoleto, in lamellam exiguam continuato. — Diam. maj. $2^1/_4$, min. 2, alt. vix 2 mill. (Coll. Nr. 3.)

Stoastoma Leanum Adams Monogr. p. 15. **)
— *Pfr.* in Zeitschr. f. Malak. 1850. p. 60.

Habitat in insula Jamaica.

5. **St. Redfieldianum Adams.** 530

T. perforata, conica, tenuiuscula, carinis confertis prominentibus munita, diaphana, virenti-flavida; spira exacte conica, acuta; anfr. $4^1/_2$ convexiusculi, ultimus rotundatus, antice breviter solutus, subdeflexus, campanulato-dilatatus; apertura verticalis, semiovalis; perist. simplex, continuum, margine dextro subcrenulato, basali leviter arcuato, angulo basali in laminam elevatam continuato. — Diam. maj. 2, min. $1^2/_3$, alt. $1^1/_2$ mill. (Coll. Nr. 4.)

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*) T. subconica, albida, carinis exilibus et striis exilissimis multis spiralibus ornata; spira elevata; anfr. $4^1/_3$, sutura haud valde impressa, ultimo anfractu subgloboso; apertura vix campanulata; labro haud multum producto, subpectinato; labio multum soluto; umbilico sublato, lamella spirali ornato. — Diverg. 93°; long. 2,29; lat. max. 2,79; lat. min 2,41 mill. (Adams l. c.)

**) T. subconica, cerina, striis spiralibus exilissimis creberrimis ornata; spira acuta, convexa, elevata; anfr. 5, ultimo alto; apertura haud multum campanulata, semicirculo paululum majore; labro haud pectinato; labio

Stoastoma Redfieldianum Adams Monogr. p. 13. *)
— — *Pfr.* in Zeitschr. f. Mal. 1850. p. 60.

Habitat in insula Jamaica.

531 6. **St. Jayanum Adams.** †

T. subconica, cerina, lineis elevatis spiralibus nonnullis ornata; spira multum elevata; sutura valde impressa; anfr. 4½, ultimus subglobosus; apertura subcampanulata; labrum pectinatum; labium multum solutum; umbilicus sublatus, lamella spirali haud multum elevata. — Diverg. media 80°; long. 2,04; lat. max. 2,29; lat. min. 1,91 mill. (Ad.)

Stoastoma Jayanum Adams Monogr. p. 14.
— — *Pfr.* in Zeitschr. f. Mal. 1850. p. 61.

Habitat in insula Jamaica.

532 7. **St. Moricandianum Adams.** †

T. globoso-conica, lineis crebris subtilibus spiralibus, subtortuose elevatis et aliis subtilioribus in interstitiis sculpta, cornea vel pallidissime lutescenti-viridis; spira elevata, fere rectilinearis; anfr. 4 convexi, sutura bene impressa separati, ultimus subglobosus; apertura semicirculo paulo major, subcampanulata; labrum modice productum, lineis spiralibus majoribus vix crenulatum; labium modice solutum, leviter curvatum et reflexum; umbilicus angustus, lamella spirali minuta. — Operc. subprofunde concavum, subauriculatum, minutissime papillosum. — Diverg. media 85°; alt. 0,075; lat. max. 0,085; lat. min. 0,075 poll. (Ad.)

Stoastoma Moricandianum Adams in Ann. Lyc. New-York V. N. 2. p. 66.
— — *Adams* Contrib. to Conch. N. 8. p. 150. **)

Habitat in insula Jamaica.

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multum soluto; umbilico angusto. — Diverg. 75°; long. 1, 78; lat. max. 1,78; lat. min. 1,52 mill. (Adams l. c.)

*) T. subconica, pallide virenti, carinis exilibus et striis exilissimis, nonnullis spiralibus ornata; spira elevata; anfr. 4½, sutura impressa, ultimo anfr. subgloboso; apertura haud multo campanulata; labro haud multo producto, paululum pectinato; labio multo soluto; umbilico sublato, carina spirali magis elevata ornato. — Diverg. 90°; long. 1,52; lat. max. 1,91; lat. min. 1,65 mill. (Adams l. c.)

**) This species resembles *S. Redfieldianum;* but the shell is larger, the spiral lines are smaller, and the spire is larger in proportion at the last whorl. (Adams l. c.)

§. 3.

8. **St. Pfeifferianum Adams.** 533

T. imperforata, subconoideo-depressa, spiraliter distincte et confertim lirata, pallide cerino-fusca, non nitens; spira parum elevata, vertice vitreo, obtusiusculo; anfr. 5 planiusculi, ultimus subdepressus, antice breviter solutus, basi excavatus; apertura semicircularis; perist. simplex, rectum, margine dextro arcuatim producto, basali in carinam ad centrum arcuatim adscendentem continuato. — Diam. maj. $3^1/_4$, min. $2^3/_4$, alt. 2 mill. (Mus. Cuming.)

Stoastoma Pfeifferianum Adams Monogr. p. 8. *)
— — *Pfr.* in Zeitschr. f. Malak. 1850. p. 61.

Habitat in insula Jamaica.

9. **St. Fadyenianum Adams.** 534

T. perforata, conoideo-depressa, tenuis, striis spiralibus inaequalibus et inaequaliter distantibus sculpta, subopaca, fusculo-flavescens; spira medio in conulum acuminatum elevata; anfr. $4^2/_3$ vix convexiusculi, ultimus depressus, superne subangulatus, basi planus, medio profunde excavatus; apertura verticalis, ultrasemicircularis; perist. simplex, continuum, liberum, margine dextro vix dilatato, basali acute auriculato, in carinam spiraliter intrantem continuato. — Diam. maj. 3, min. $2^1/_4$, alt. $1^2/_3$ mill. (Mus. Cuming.)

Stoastoma Fadyenianum Adams Monogr. p. 7. **)
— — *Pfr.* in Zeitschr. f. Mal. 1850. p. 61.

Habitat in insula Jamaica.

10. **St. Chittyanum Adams.** 535

T. subumbilicata, subconoideo-depressa, confertim sub lente lirata, subopaca, pallide cornea vel cerea; spira subco-

*) T. subglobosa, pallide cerino-fusca, striis profundis plurimis eleganter insculpta; spira brevi, conica, acuta; anfr. 5 haud multum convexis; apertura haud campanulata; labro multo producto, nec denticulato, nec pectinato; labio haud multo soluto; umbilico lamella partim obtecto. — Diverg. 120°; long. 1, 91; lat. max. 2,92; lat. min. 2,16 mill. (Adams l. c.)

**) T. subdiscoidea, pallide cerina, carinis exilissimis paucis inaequalibus ornata; spira acuta, concaviter multum elevata; anfr. $4^2/_3$, ultimo expanso, discoideo, infra planulato; apertura haud multum expansa, semicirculo paululum majore; labro haud pectinato, infra auriculato; labio multo

noidea, acutiuscula; anfr. $4^1/_2$ planiusculi, ultimus subrotundatus, antice solutus, basi planiusculus; apertura verticalis, semiovalis; perist. simplex, tenue, margine dextro perarcuato, columellari stricto, angulo basali obsoleto, in laminam latam, umbilicum angustissimum plerumque tegentem, producto. — Diam. maj. $2^2/_3$, min. 2, alt. $1^2/_3$ mill. (Coll. Nr. 5.)

Stoastoma Chittyanum Adams Monogr. p. 10. *)
— — *Pfr.* in Zeitschr. f. Malak. 1850. p. 62.

Habitat in insula Jamaica.

536 ### 11. St. Cumingianum Adams.

T. subumbilicata, depressa, tenuis, spiraliter confertim striata, subdiaphana, rubella vel fuscula; spira breviter conoideo-elevata, obtusiuscula; anfr. fere 4 modice convexi, ultimus rotundatus, basi profunde excavatus, umbilicum simulans; apertura verticalis, lata, semiovalis; perist. continuum, simplex, reflexiusculum, margine dextro arcuatim dilatato, columellari vix soluto, basali in laminam exiguam continuato. — Diam. maj. $2^1/_5$, min. $1^3/_4$, alt. $^3/_4$ mill. (Mus. Cuming.)

Stoastoma Cumingianum Adams Monogr. p. 9. **)
— — *Pfr.* in Zeitschr. f. Malak. 1850. p. 62.

Habitat in insula Jamaica.

537 ### 12. St. Petitianum Adams. †

T. globoso-discoidea, albida, lineis 8—10 spiralibus elevatis, subtilibus, totidemque subtilioribus sculpta; spira modice elevata, convexa; anfr. $3^1/_2$ modice convexi, sutura leviter impressa juncti, ultimus rotundatus; apertura pone labrum valde contracta; labrum modice productum, duplex, margine externo lineis spiralibus majoribus vix crenulato; labium

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soluto; lamella spirali umbilicali, labro juncta. — Diverg. 135°; long. 1,78; lat. max. 2,54; lat. min. 2,04 mill. (Adams l. c.)

*) T. conica, depressa, pallide cerina vel cornea, carinis spiralibus exilibus multis ornata; spira paululum elevata; anfr. $4^1/_2$, ultimo dilatato; apertura semicirculo paululum majore; labro haud multum producto, vix pectinato; labio multum soluto; umbilico parvo, partim obtecto. — Diverg. 110°; long. 1,65; lat. max. 2,41; lat. min. 2,04 mill. (Adams l. c.)

**) T. subglobosa, depressa, cerina, carinis spiralibus exilibus plurimis ornata; spira paululum elevata; anfr. $3^3/_8$, ultimo magno; apertura campanulata; labro multum producto, vix pectinato; umbilico haud profundo. — Diverg. 112°; long. 1,27; lat. max. 1,91; lat. min. 1,52 mill. (Adams l. c.)

modice solutum; umbilicus minutus, lamella spirali minus exquisita. — Diverg. 125°; long. 0,04; lat. max. 0,06; lat. min. 0,05 poll. (Ad.)

Stoastoma Petitianum Adams in Ann. Lyc. N.-York V. N. 2. p. 67.
— — *Adams* Contrib. to Conch. N. 8. p. 151.

Habitat in insula Jamaica.

13. **St. Anthonianum Adams.** † 538

T. praecedenti similis, spira valde depressa, lineis spiralibus validioribus; apertura campanulata, labro ante stricturam profundam valde producto. — Diverg. 145°; long. 0,035; lat. max. 0,07; lat. min. 0,055 poll. (Ad.)

Stoastoma Anthonianum Adams Contrib. to Conchol. N. 8. p. 151.

Hnbitat in insula Jamaica.

§. 4.

14. **St. Gouldianum Adams.** 539

T. umbilicata, discoidea, tenuis, carinis acutis distantibus, lineisque subtilissimis spiralibus sculpta, pellucida, virenti-hyalina; spira subplana, minutissime mucronata; anfr. 3½ convexi, ultimus latus, depressus; apertura subverticalis, fere triangularis; perist. simplex, acutum, continuum, margine dextro dentato, superne angulatim longe producto, basali dilatato-expanso, angulo inferiore in laminam vix elevatam continuato. — Diam. maj. 3, min. 2¼, alt. 1 mill. (Coll. Nr. 6.)

Stoastoma Gouldianum Adams Monogr. p. 5. *)
— — *Pfr.* in Zeitschr. f. Malak. 1850. p. 62.

Habitat in insula Jamaica.

15. **St. Tappanianum Adams.** † 540

T. subdiscoidea, carinis 7 (suprema & infima minutis) et lineis spiralibus subtilissimis sculpta, pallide cornea, subdiaphana; spira modice et convexe elevata; anfr. 3½ modice

*) T. discoidea, pallide virente, carinis paucis, et lineis elevatis exilissimis, spiralibus, ornata; spira convexa paululum elevata; anfr. 3½, ultimo lato, sutura valde impressa; apertura campanulata; labro longe producto, supra auriculato, a carinis productis pectinato; umbilico sublato, lamella spirali haud multum elevata. — Diverg. 155°; long. 1,27; lat. max. 2,79; lat. min. 2,04 mill. (Adams l. c.)

convexi, ultimus vix solutus; apertura semicirculo paulo major, pone labrum subcontracta; labrum superne abrupte productum, carinis vix crenulatum; labium valde solutum, subreflexum; umbilicus latiusculus, lamella spirali mediocri. — Operc. profunde concavum, laevigatum, utrinque auriculatum. — Diverg. 140°; long. 0,045; lat. max. 0,086; lat. min. 0,07 poll. (Ad.)

Stoastoma Tappanianum Adams in Ann. Lyc. N.-York. V. N. 2. p. 65.
— — *Adams* Contrib. to Conch. N. 8. p. 149. *)

Habitat in insula Jamaica.

541 16. **St. Vilkinsoniae Adams.** †

T. subdiscoidea, carinis 5 et lineis spiralibus subtilissimis (4 — 6 in quovis interstitio) sculpta, pallide cornea, subdiaphana; spira modice et convexe elevata; anfr. 3½ angulati, ultimus latiusculus, antice solutus; apertura campanulata; labrum longe productum, auriculatum, carinis profunde crenatum; labium valde solutum, subreflexum; umbilicus latiusculus, lamella spirali mediocri. — Operc. utrinque auriculatum, subtilissime punctulatum. — Diverg. 140°; long. 0,035; lat. max. 0,07; lat. min. 0,055 poll. (Ad.)

Stoastoma Vilkinsoniae Adams in Ann. Lyc. N.-York V. N. 2. p. 64.
— — *Adams* Contrib. to Conchol. N. 8. p. 148. **)

Habitat in insula Jamaica.

542 17. **St. Hollandianum Adams.** †

T. subdiscoidea, carinis 5 et lineis subtilissimis spiralibus (plerumque 3—6 in quovis interstitio) sculpta, pallide cornea, subdiaphana; spira modice et convexe elevata; anfr. 3½ modice convexi, subangulati, ultimus antice vix solutus; apertura majuscula, pone labrum leviter constricta; labrum modice productum, carinis vix crenulatum; labium liberum, vix reflexum; umbilicus latiusculus, lamella spirali mediocri. — Operc. subauriculatum, laevigatum. — Diverg. 145°; long. 0,035; lat. max. 0,065; lat. min. 0,055 poll. (Ad.)

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*) This shell resembles *S. Gouldianum*, and might be mistaken for the young of that species. But the labrum is thickened as in all mature shells of Stoastoma proper. It is most readily distinguished by the peculiarities of the aperture. (Adams l. c.)

**) This shell closely resembles *S. Gouldianum*, and is most readily distinguished by the difference in size. A closer inspection will detect the more essential differences. (Adams l. c.)

Stoastoma Hollandianum Adams in Ann. Lyc. N.-York V. N. 2. p. 65.
— — *Adams* Contrib. to Conchol. N. 8. p. 149. *)

Habitat in insula Jamaica.

18. **St. Blandianum Adams.** 543

T. perforata, subdiscoidea, sub lente confertim spiraliter striata (striis nonnullis elevatioribus), flavido-albicans; spira vix elevata; anfr. $3^1/_2$ vix convexiusculi, ultimus latus, rotundatus, antice descendens, basi planiusculus; apertura obliqua, semiovalis; perist. simplex, continuum, margine dextro arcuatim dilatato, columellari soluto, basali in laminam parum prominentem continuato. — Diam. maj. $2^1/_4$, min. 2, alt. $^4/_5$ mill. (Mus. Cuming.)

Stoastoma Blandianum Adams Monogr. p. 6. **)
— — *Pfr.* in Zeitschr. f. Mal. 1850. p. 63.

β. Dimidio minor. (Mus. Cuming.)

Habitat in insula Jamaica.

19. **St. Agassizianum Adams.** † 544

T. subdiscoidea, carinis 4 prominentibus, acutis, lineisque paucis spiralibus, elevatis, superis sculpta, cornea, subdiaphana; spira vix elevata; anfr. $3^1/_2$ planulati, ultimus subtus planulatus, antice rapide descendens, breviterque solutus; apertura vix campanulata; labrum reflexiusculum, rotundatum, non crenulatum; umbilicus mediocris, lamella spirali valde elevata, super umbilicum arcum latum formante. — Diverg. 165°; long. 0,065; lat. max. 0,118; lat. min. 0,095 poll. (Ad.)

Stoastoma Agassizianum Adams Contrib. to Conchol. N. 9. p. 158. ***)

Habitat in insula Jamaica.

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*) This shell much resembles *S. Tappanianum*. It is most readily distinguished by its inferior size, and by the greater number of fine spiral striae. (Adams l. c.)

**) T. subdiscoidea, albida vel cornea, carinis spiralibus exilibus multis ornata; spira paululum elevata; anfr. $3^1/_2$; apertura campanulata; labro multo producto, vix pectinato; labio multo soluto; umbilico lato, haud profundo, lamella spirali instructo. — Diverg. 150°; long. 0,64; lat. max. 1,52; lat. min. 1,27 mill. (Adams l. c.)

***) In the only specimen now before me, there is, around the lip within, a deposit which contracts the aperture, and rising over the labium in a rather thin curved lamella, extends over half the entrance of the umbilical arch. (Adams l. c.)

545 **20. St. Philippianum Adams.** †

T. subdiscoidea, superne modice convexa, laevigata, nitida, pallide cornea, subdiaphana; sutura modice impressa; anfr. 3 $^1/_2$ convexiusculi, ultimus supra peripheriam regulariter rotundatus, antice vix solutus; apertura subcampanulata; labrum leviter productum, haud crenulatum; labium snperne subsolutum, basi infra anfr. penultimum extensum; umbilicus mediocris, lamella spirali valde elevata, supra umbilicum arcum latum formante. — Diverg. media 130°; long. 0,055; lat. max. 0,09; lat. min. 0,075 poll. (Ad.)

Stoastoma Philippianum Adams Contrib. to Conchol. N. 9. p. 158.

Habitat Ackendown in Westmoreland Jamaicae.

II. Trochatella Swainson.

Operculum non spiratum, semiovale, planum, pallidum, magis minusve solidum. Testa trochiformis vel globoso-conica; apertura subtriangulari-semiovalis; columella subplana, callum basalem non emittens, rarius peristomatis margines callo tenuissimo, non diffuso, jungens.

Trochatella Swains. Malacology p. 337.
— *Pfr.* in Zeitschr. f. Malak. 1847. p. 152. 1848. p. 82.
— *Pfr.* in Chemn. ed. sec. I. 18. p. 4.
— *Adams* Contrib. to Conchol. passim.
Helicinae spec. *Auctt.*
Oligyrae pars *Gray* in Proc. Zool. Soc. 1847. p. 182.

Conspectus specierum.

A. Ecarinatae.			
1. Peristomatis margine dextro sinuato	§. 1.	Nr.	1.
2. Margine dextro integro	§. 2.	—	2—5.
B. Subangulatae	§. 3.	—	6—10.
C. Carinatae	§. 4.	—	11—17.

§. 1.

546 **1. T. regina Morelet.**

T. conico-globosa, solida, striis obliquis irregularibus, lineisque concentricis impressis subtiliter decussata, parum

nitida, citrina vel lilacea, maculis albis marmorata, ad suturam sanguineo-fasciata; spira conica, mucronata; anfr. 7 celeriter accrescentes, planiusculi, ultimus magnus, antice deflexus, medio subangulatus; columella subverticalis, plana; apertura obliqua, subtriangulari-lunaris, intus nitida, citrina vel brunnea; perist. simplex, marginibus callo tenuissimo junctis, dextro sinu profundo emarginato, basali subeffuso, cum columella angulum rectum formante. — Operc. testaceum, semiovale; extus album, excavatum, intus flavidum, striatum, margine columellari incrassato. — Diam. maj. 30, min. 23, alt. 21 mill. (Coll. Nr. 7.)

Helicina regina Morelet Test. noviss. p. 19. N. 43. *)
— *multistriata Velasquez* mss. in Mus. Cuming.
— — *Chemn.* ed. II. N. 89. p. 65. t. 9. f. 37. 38.
— *maculosa Newcomb* mss., Jay Catal. 1850. p. 261. N. 6068.

Habitat ad montes Guajaibon insulae Cubae (Morelet, Poey).

Obs. Variat magnitudine et sinu peristomatis magis minusve distincto, in adultis semper profundo.

§. 2.

2. T. virginea Lea. 547

T. turbinato-globosa, crassiuscula, concentrice et confertim lirata, opaca, albida; spira turbinata, mucronata; anfr. fere 7 vix convexiusculi, ultimus rotundatus; apertura perobliqua, integra, subsemicircularis; columella recedens, excavata, basi in laminam subliberam terminata; perist. campanulato-expansum, intus incrassatum, margine acutum. — Operc. testaceum, intus pallide rufulum, extus albidum, margine elevato cinctum, caeterum granulis alte elevatis obsitum. — Diam. maj. 23, min. 18, alt. 19 mill. (Mus. Cuming.)

Helicina virginea Lea Observ. I. p. 162. t. 19. f. 58. **)

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*) T. turbinata, solida, strigis distantibus parum eminentibus rugosiuscula, subtus radiatim decussata, flava vel rubella, saepius nubeculata, ad basin albescens; anfr. 8 planulati, apice acutissimo; apertura oblongo-irregularis, intus nitida, concolor; columella planulata, callosa, brevis, angulatim flexa; perist. acutum, validum, anterius attenuatum, latere infero sinuoso, supero profunde emarginato. — Diam. maj. 30, min. 28 mill. (Morelet l. c.)

**) T. subconica, apice acuta, subtus inflata, crassa, transversim multisulcata; anfr. senis; spira elevata; apertura valde dilatata; labro effuso; columella subcallosa. — Diam. 0,8; length 0,8 inch. — It is nearly of the same diameter as *H. pulcherrima.* It differs from it altogether in form and colour. It is remarkable for its acutely pointed apex, its milk-white appear-

Helicina virginea Orb. Moll. Cub. I. p. 241? *)
— — *Sow.* Thes. N. 20. p. 5. t. 1. f. 18. t. 3. f. 114. **)
— *ampullina Fér.* in Bull. zool. 1835. p. 101.
Trochatella virginea Pfr. in Zeitschr. f. Malak. 1848. p. 82.
— — *Chemn.* ed. II. N. 2. p. 5. t. 6. f. 7. 8.

Habitat in insula Haiti (Sallé).

548 3. **T. chrysostoma Shuttleworth.**

T. globoso-conica, solida, superne acute lirata, basi confertius spiraliter striata, opaca, alba; spira conica, acute mucronata; sutura impressa; anfr. 7 planiusculi, ultimus rotundatus; apertura obliqua, subtriangulari-semiovalis, intus aurea; columella verticalis, dilatata, nitida; perist. subexpansum, marginibus callo tenuissimo; retrorsum non producto junctis. — Operc. solidum, testaceum. — Diam. maj. 12½, min. 10, alt. 9½ mill. (Coll. Nr. 8.)

Helicina chrysostoma Shuttl. teste Cuming.
Trochatella chrysostoma Chemn. ed. II. Helic. t. 10. f. 3. 4.

Habitat in insula Cuba.

549 4. **T. Gouldiana Pfr.**

T. globoso-conica, tenuiuscula, oblique striata, lineis vix elevatis spiralibus, superne distantioribus, basi confertis subdecussata, lutea, albo-subfasciata; spira conica, mucronata; anfr. 6 planiusculi, ultimus peripheria angulatus, basi planiusculus; apertura perobliqua, rotundato-semiovalis; columella brevis, verticalis, subdilatata; perist. subexpansum, marginibus callo tenui junctis, basali cum columella angulum fere rectum formante. — Operc. solidum, testaceum, albidum. — Diam. maj. 11, min. 9, alt. 8 mill. (Mus. Cuming.)

Helicina Sloanei Auctt. Nec Orb.

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ance, and its numerous furrows. The outer lip may, with propriety, be said to be effuse rather than reflected. (Lea l. c.)

*) T. conica, tenui, transversim striata, lutea; spira convexa, conica, apice acuta; anfr. 7 convexis; apertura semilunari, intus lutea; labro tenui, acuto; columella integra, parum incrassata. — Diam. 21, long. 18 mill. (In interiore Cubae: Sagra; Cerro de Cuzco: Delâtre.) — Voisine par la taille et par ses stries, de *l'Hélicine striée* de Blainville (Dict. d. sc. nat., Ellipsostome, f. 4.), celle-ci en diffère par ses bords non réfléchis et par son opercule manquant de la côte médiane. (Orb. l. c.)

**) T. *H. pulchellae* simili, sed crassiori, costis magis numerosis; columella concava, (Sow. l. c.)

Trochatella Gouldiana Pfr. in Zeitschr. f. Malak. 1850. p. 191.
— — *Chemn.* ed. II. Helic. t. 10. f. 5. 6.

Habitat in insula Cuba.

5. **T. Sloanei Orbigny.** † 550

T. conica, trochiformis, tenuis, diaphana, lutea, transversim striata; spira conica, apice acuto; anfr. 7 plani, carinati; apertura triangularis, alba vel rosea; labrum acutum; columella non callosa; operc. album. — Diam. 10, alt. 9 mill. (O.)

Helicina Sloanei Orb. Moll. Cub. I. p. 248. t. 20. f 4—6. *)
— — *Sow.* Thes. N. 47. p. 10. t. 3 f. 102? **)

Habitat in interiore Cubae: Cerro de Cuzco (Delâtre et Lanier).

§. 3.

6. **T. Petitiana Orbigny.** 551

T. globoso-conica, tenuis, liris obtusis confertis concentricis sculpta, diaphana, pallide lutescens; spira conica, acuta; anfr. 6½ planiusculi, ultimus obsolete angulatus, utrinque convexior; apertura obliqua, ampla, fere semicircularis, intus flava; columella brevis, simplex, subexcavata; perist. tenue, late expansum, marginibus callo tenui junctis, supero et columellari subalatis. — Operc. testaceum, medio excavatum, tenue. — Diam. maj. 12½, min. 11, alt. 8 mill. (Coll. Nr. 9.)

Helicina Petitiana Orb. Moll. Cub. I. p. 247. t. 20. f. 1—3. ***)
— — *Chemn.* ed. II. N. 53. p. 43. t. 7. f. 30 - 32.
Trochatella Petitiana Petit in Journ. Conch. 1851. I. p. 85.

Habitat Jagua insulae Cubae (Orbigny, Poey).

7. **T. conica Pfr.** 552

T. conica, acuminata, subtus convexiuscula, spiraliter confertim striata, pallide rufa, carnea vel albida; anfr. 6 pla-

*) Par ses stries, par sa teinte, cette espèce a du rapport avec la *H. Petitiana*, mais elle s'en distingue par ses tours de spire contigus et carénés au lieu d'être convexes et arrondis: nous ne la connaissons pas assez complète, pour savoir comment serait son péristome. (Orb. l. c.)

**) T. trochiformi, angulata, subcarinata; striis spiralibus, distantibus cincta, labio externo reflexo; operculo corneo. (Sow. l. c.)

***) T. elevato-conica, tenui, diaphana, lutea, transversim sulcata; spira elevata, conica; apice acuto; anfr. 7 convexis; apertura semilunari, magna; labro albo, tenui, acuto, undulato, reflexissimo; columella non

niusculi, interdum exserti, ultimus spiram subaequans, medio subangulatus; apertura subverticalis, integra, ovali-subtriangularis; columella simplex, retrorsum subdilatata; perist. album, acutum, rectangulè late expansum. — Operc. terminale, tenue, concolor. — Diam. maj. $5^2/_3$, min. $4^2/_3$, alt. $4^1/_3$ mill. (Coll. Nr. 10.)

Helicina conica Pfr. in Wiegm. Arch. f. Nat. 1839. I. p. 355.
— — *Sow.* Thes N. 45. p 9. t. 3. f. 101.
— *elegans Orb.* Moll. Cub. I. p. 250. t. 20. f. 13—15! *)
Trochatella conica Pfr. in Zeitschr. f. Malak. 1848. p. 82.
— — *Chemn.* ed II. Troch. N. 6. p. 7. t. 5. f. 9—11.

Habitat in insula Cuba; freqüens circa Matanzas, etc.!

553 8. **T. elegantula Pfr.**

T. conica, tenuiuscula, subcarinata, superne liris subdistantibus elevatis, basi striis confertioribus spiralibus sculpta, rubra vel flava; spira conica, vertice acuto; anfr. 6 planiusculi, ultimus convexior, basi subplanatus; apertura diagonalis, subtriangularis; columella brevissima, arcuata, superne vix dilatata; perist. simplex, expansiusculum. — Operc.? — Diam. maj. 4, min. $3^3/_4$, alt. $3^1/_2$ mill. (Coll. Nr. 11.)

Trochatella elegantula Pfr. in Zeitschr. f. Malak. 1850. p. 76.
— — *Chemn.* ed. II. Helic. t. 10. f. 28—31.

Habitat in insula Haiti (Sallé).

554 9. **T. tenuis Adams.**

T. minuta, pyramidata, tenuis, lineis spiralibus subconfertis, striisque incrementi irregularibus sub lente decussatula, diaphana, fuscula; spira conica, subscalaris; anfr. $4^1/_2$ plani, 2 ultimi subcarinati; apertura perobliqua, rotundato-lunaris;

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incrassata; aperturae angulo columellari acuto, cultrato. — Diam. 11, alt. 10 mill. — Aucune des espèces que nous venons de décrire ne peut être comparée à celle-ci pour les sillons transverses et la grande largeur du péristome. (Orb. l. c.)

*) T. elevato-conica, tenui, transversim striata, albo-rubescente; spira elevata, conica, apice acuto; anfr. 6 rotundis, convexis; apertura ovali; labro acuto, reflexo, albo; columella incrassata; aperturae angulo columellari simplici. — Diam. $4^1/_2$, long. 5 mill. — Nous retrouvons dans cette Hélicine la forme des *H. conica* et *trochulina*: néanmoins elle en diffère par ses stries transverses, ses tours de spire nullement anguleux, et convexes, par sa bouche ovale, et par ses bords fortement réfléchis et interrompus en avant. (Orb. l. c.)

columella brevissime arcuata; perist. simplex, rectum, acutum. — Operc. membranaceum, fulvum. — Diam. maj. $2^2/_3$, min. $2^1/_3$, alt. 2 mill. (Mus. Cuming.)

Helicina tenuis Adams Contrib. to Conchol. N. 1. p. 14. *)
Trochatella tenuis Adams Catal. 1849 et 1851.

Habitat in insula Jamaica.

10. **T. rupestris Pfr.** 555

T. pyramidata, tenuis, spiraliter striata, non nitens, citrina, rarius fuscidula; anfr. 5 plani, subdisjuncti, ultimi subcarinati, ultimus paululum descendens, basi convexiusculus; apertura integra, subtetragono-ovalis; columella brevis, verticalis; perist. simplex, acutum. — Operc. tenuissimum, pallide flavum. — Diam. maj. 4, min. $3^3/_4$, alt. 3 mill. (Coll. Nr. 12.)

Helicina rupestris Pfr. in Wiegm. Arch. f. Nat. 1839. I. p. 355.
— — *Sow.* Thes. N. 46. p. 10. t. 3. f. 120.
Trochatella rupestris Pfr. in Zeitschr. f. Malak. 1848. p. 82.
— — *Chemn.* ed. II. Troch. N. 7. p. 8. t. 5. f. 12—15.

Habitat in insula Cuba; in ripis fluvii Yumurí prope Matanzas!

§. 4.

11. **T. Tankervillii Gray.** 556

T. trochiformis, solidiuscula, oblique striata, liris granulosis confertis cincta, albido-flavescens, seriebus 2 macularum rubrarum notata; spira conica, acuta; anfr. $6^1/_2$ plani, ultimus basi convexiusculus, medio acute carinatus: carina valide dentata; apertura subtriangularis, intus alba, nitida; columella plana, breviter recedens, angulo recto cum margine basali juncta; perist. late expansum, undulatum, marginibus callo tenuissimo junctis. — Operc. tenue, testaceum, utrinque album. — Diam. maj. 20, min. 17, alt. 17 mill. (Coll. Nr. 13.)

Helicina Tankervillii Gray in Zool. Journ. I p. 250. **)

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*) Shell small, thin, conic, pale brown, with distant slender raised spiral lines, decussated on the spire by inequidistant lines of growth; whorls four and one-half, more inflated and subangular below the middle; aperture elliptical; labrum sharp, not reflected; labrum with a very thin deposit, columella slightly pointed. -- Mean divergence 90°; length 0,08; greatest breadth 0,09; least breadth 0,08 inch. — This is a Trochatella. (Adams l. c.)

**) T. subgloboso-conoidea, acute carinata, spiraliter squamulosa costostriata, supra conica, infra convexa; peristomate reflexo albido, labio medio sinuato, columella subincrassata; axis $^7/_8$, diam. $^6/_8$ poll. (Gray l. c.)

Helicina Tankervillii Sow. Gen. shells N. 36. f. 2.
— — *Reeve* Conch. syst. II. t. 186. f. 10.
— — *Sow.* Thes. N. 19. p. 5. t 1. f. 17. *)
Trochus Tankervillii Wood Ind. Suppl. t 5. f. 10.
Trochatella Tankervillii Pfr. in Zeitschr. f. Malak. 1848. p. 82.
— — *Chemn.* ed. II. Tr. N. 1. p. 4. t. 5. f. 1. 2.
— — *Petit* in Journn. Conch. 1851. I. p. 85. t. 1 f. 9.

Habitat in insula Jamaica.

557 12. **T. constellata Morelet.**

T. trochiformis, tenuis, costulis lamellosis obliquis superne sculpta, albido et flavido variegata; spira sensim elevata, apice mucronata; anfr. 8, summi mucronem acutum formantes, sequentes dentato-carinati, planuli, ultimus infra penultimum recedens, basi costis radiantibus et liris spiralibus scabre clathratus, medio impressus, non callosus; carina 2 ultimorum anfr. dilatata, lamellatim expansa, radiatim striata et elegantissime dentata; apertura perobliqua, subrhombea; perist. tenue, marginibus subparallelis, supero recto, sinuoso, basali reflexo. — Operc. oblongum, subreniforme, tenue, album. — Diam. maj. c. carina 13, min. 12, alt. 7 mill. Carina basi 2 mill. lata. (Coll. Nr. 14.)

Helicina constellata Morelet in Revue zool. 1847. p. 144. **)
— — *Morelet* Test. noviss. p. 21 N. 53.
— — *Poey* Mem. hist. nat. Cuba I. t. 5. f. 15—17.
— *pagoda Valasquez* mss.
Trochatella constellata Pfr. in Chemn. ed. II. Tr. N. 8. p. 8. t. 9. f. 40. 41.

Habitat in „Sierra de Cristales, Isla de Pinos" prope Cubam.

558 13. **T. stellata Velasquez.**

T. depresse trochiformis, tenuis, costulis obliquis lamellosis, lirisque nonnullis concentricis superne sculpta, opaca, lutea, albo-maculata; spira convexo-conoidea, in mucronem acutum elevata; anfr. circa 8 planuli, primi laeves, reliqui carina exserta denticulata cincti, ultimus non descendens, utrinque convexiusculus, basi radiatim (nec concentrice) cos-

*) T. *H. pulchellae* simillima; sed majori; carina interrupta, in medio anfractuum ornata. (Sow. l. c.)

**) T. depressa, tenui, pallide flava, subtus decussata, supra eleganter cistulata; carina denticulata emergente; anfractibus prioribus planulatis, ultimo plerumque dilatato et disjuncto; apice acuminato; apertura obliqua, angulari; labio columellari subreflexo; dextro simplici (Morelet. l. c.)

tatus, medio impressus; apertura perobliqua, lanceolato-rhombea; perist. tenue, margine supero recto, sinuoso, basali breviter reflexo. — Diam. maj. 13, min. $11^1/_2$, alt. 7 mill. (Coll. Nr. 15.)

Helicina stellata Velasquez mss. (Jay Catal. 1850. p. 262. N. 6098.)
— — *Poey* Mem. hist. nat. Cuba I. t. 5. f. 18—20.
— *rota Newcomb* mss., *Jay* Catal. 1850. p. 262. N. 6091?

Habitat in insula Cuba (Poey).

14. T. Josephinae Adams. 559

T. conoidea, trochiformis, acute carinata, solidiuscula, irregulariter et undulatim rugoso-plicata, non nitida, straminea; spira conoidea, acutissime mucronata; anfr. 6 plani, omnes dentato-carinati: ultimi carina subduplice, rubro et albo variegata; apertura perobliqua, subsecuriformis; perist. album, marginibus conniventibus, supero repando, vix expansiusculo, basali subincrassato-reflexo. — Operc.? — Diam. maj. 12, min. 10, alt. 6 mill. (Mus. Cuming.)

Helicina Josephinae Adams Contrib. to Conchol. N. 1. p. 14. *)
Trochatella Josephinae Adams Catal. 1849 et 1851.

Habitat in insula Jamaica.

15. T. pulchella Gray. 560

T. subgloboso-conica, tenuis, lutea, rufo interrupte fasciata et albido variegata, vix nitidula; spira conica, acuminata; anfr. 5—6 subplani, ad peripheriam undulato-carinati, superne liris elevatis concentricis muniti, ultimus antice non descendens, infra carinam spiraliter confertim striatus; columella brevis, verticalis, dilatata, complanata; apertura ampla, integra, subtriangulari-ovalis; perist. tenue, undique late expansum, margine supero et basali strictiusculis. — Operc. subtriangulare, chartaceum, corneo-albidum. — Diam. maj. $11^1/_2$, min. 9, alt. 9 mill. (Coll. Nr. 16.)

*) Shell conic above, much flattened beneath, with the periphery very acute and scolloped or imbricate; above irregularly mottled with yellow, green and white; beneath copper red, with the centre pale green; spirally ribbed above, with very fine close spiral striae beneath; spire with the outlines concave near the apex, rectilinear in the rest; apex acute; whorls six, flat or slightly concave; aperture a spherical triangle; labrum moderately thickened and reflected, much advanced above; deposit of the base thin. -- Mean divergence 100°, at the apex 80°; length 0,27; greatest breadth 0,43; least breadth 0,36 inch. This species belongs to Trochatella. (Adams l. c.)

Helicina pulchella Gray in Zool. Journ. I. p 64. t. 6. f. 12 *)
— — *Guérin* Iconogr. Moll. t. 13. f. 9.
— — *Desh.* in Lam. hist. VIII. p. 160. N 8.
— — *Sow.* Thes. N. 18. p 5. t. 1. f. 15. **)
— — *Reeve* Conch. syst. II. t. 186. f. 13
Trochatella pulchella Swains. Malacol. p. 337.
— — *Pfr.* in Zeitschr. f. Malak. 1848. p. 86.
— — *Chemn.* ed. II. Tr. N. 4. p. 6. t. 5. f. 3.

β. Minor; diam. maj. $8^1/_2$, min. $6^2/_3$, alt. $6^2/_3$ mill. (Coll.)
Helix scitula Wood Ind. Suppl. t. 8. f. 64.
Helicina scitula Gray in Wood suppl. p. 39.
— *pulchella Pot.* et *Mich.* Gal. Douai I. p. 229. t. 23. f. 5. 6.
— *Sloanii Fér.* Mus. test. Pot. et Mich.
Trochatella pulchella var. Chemn. l. c. p. 7. t. 5. f. 4.

Habitat in insula Jamaica.

561 16. **T. Grayana Pfr.**

T. conoideo-globosa, tenuis, nitidula, unicolor flava; spira brevis, conoidea, mucronata; anfr. $5^1/_4$ rapide crescentes, superne liris regularibus, subconfertis sculpti, 2 ultimi convexi, ultimus non descendens, lira peripherica undulata subcarinatus, basi subtiliter concentrice striatus; apertura obliqua, ampla, rotundato-lunaris; perist. simplex, tenue, album, late expansum, margine columellari dilatato, reflexo. — Operc.? — Diam. maj. 10, min. vix 8, alt. $7^1/_2$ mill. (Coll. Nr. 17.)

Trochatella Grayana Pfr. in Zeitschr. f. Malak. 1848. p. 85.
— — *Chemn.* ed. II. Tr. N. 5. p. 7. t. 5. f. 5. 6.
— — *Adams* Catal. 1849 et 1851.
Helicina pulchella var. Sow. Thes. t. 1. f 16.

Habitat in insula Jamaica.

562 17. **T. semilirata Pfr.**

T. conico-globosa, solida, opaca, flavida, superne confertim albo-lirata; spira conica, acutiuscula; anfr. $5^1/_2$ planiusculi, ultimus convexiusculus, carinatus, basi subtilissime concentrice

*) T. subgloboso-conoidea, lutea, interrupte rufo-trifasciata, supra conica, spiraliter albido-rugosa, infra convexa, spiraliter striata, albida bifasciata; perist. tenui, reflexo, albo, rufo-trimaculato; labio subincrassato; operculo testaceo. (Gray l. c.)

**) T. conica, subangulata, spiraliter costata; costis distantibus, rugosis; labio externo expanso, reflexo; columella lata, complanata. (Sow. l. c.)

striatus; apertura perobliqua, subtriangularis; columella simplex, immediate in marginem basalem abiens; perist. incrassatum, angulatim expansum, marginibus callo tenuissimo junctis, supero sinuato. — Operc.? — Diam. maj. $10^1/_2$, min. 8, alt. $7^1/_2$ mill. (Mus. Cuming.)

Helicina semilirata (Trochatella) *Pfr.* in Proc. Zool. Soc. 1848. p. 124.
Trochatella semilirata *Pfr.* in Zeitschr. f. Malak. 1848. p. 82.
— — *Chemn.* ed. II. Tr. N. 3. p. 5. t. 6. f. 15. 16.

Habitat in Venezuela (Linden).

III. Lucidella Swainson.

Operculum membranaceum, semiovale, margine columellari vix incrassato. — Testa depresse heliciformis, basi minime callosa; apertura sinuato-triangularis; peristoma crassum, dentibus validis munitum.

Lucidella Swains. Malacol. p. 330 (sectio Lucernellae).
— *Gray* Syn. Brit. Mus. Ed. 1842. p. 91; Proc. Zool. Soc. 1847. p. 182. N. 532.
— *Pfr.* in Zeitschr. f. Mal. 1847. p. 152. 1848. p. 82.
— *Pfr.* in Chemn. ed. II. Helicinae. p. 9.
— *Petit* in Journ. Conch. 1851. I. p. 85.
Helicinae spec. *Gray* et Auctt.
Helicis spec. *Fér.*, *Wood*, *Desh.*

Species unica:

1. **L. aureola (Helix) Férussac.** 563

T. depresso-conoidea, tenuiuscula, concentrice confertim striata, purpurascenti-fusca vel straminea, vix nitidula; spira conoidea, acuta; anfr. fere 6 planiusculi, ultimus medio subangulatus (angulo interdum minute tuberculifero), basi planiusculus, medio impressus, antice constrictus, biscrobiculatus; apertura perobliqua, bisinuato-subtriangularis; columella brevissima, immediate in peristoma bidentatum, album, superne late expansum, basi reflexum abiens. — Operc. tenuissimum, extus concaviusculum, pallide corneo-luteum. — Diam. maj. $8^1/_2$, min. $7^1/_3$, alt. $5^1/_2$ mill. (Coll. Nr. 18.)

Helix aureola (Helicodonta) *Fér.* Prodr. N. 90.
— — *Fér.* Hist. t. 48. f. 1. t. 49 A. f. 1.

Helix aureola Wood Ind. Suppl. t. 8. f. 65.
— — *Desh.* in Lam. hist. VIII. p. 109. N. 172. *)
— *areola Petit* in Journ. Conch. 1851. I. p. 86. t. 1. f. 10.
Helicina aureola Gray in Zool. Journ. I. p. 70. t. 6. f. 15. **)
— — *Sow.* Thes. N. 5. p. 3. t. 1. f. 44—46. ***)
Lucidella aureola Swains. Malacol. p. 330.
— — *Pfr.* in Zeitschr. f. Mal. 1848. p. 82.
— — *Chemn.* ed. II. Helicin. p. 9. t. 5. f. 21—23.
— — *Adams* Contrib. to Conch. p. 16. 181.
Browne Jamaic. t. 40. f. 3. Cochlea N. 12.

Habitat in insula Jamaica.

IV. Helicina Lamarck.

Operculum non spiratum, subsemiovale, membranaceum vel testaceum. Testa heliciformis, turbinata, globosa vel depressa, basi circa columellam subplanulatam, strictiusculam callosa; apertura triangulari-semiovalis, integra; perist. simplex, rectum, vel incrassatum, saepe late expansum.

Helicina Lamarck Ann du Mus. V. (1804) p. 91 exclusa specie. †)
— *Lamarck* Hist. VI. 2. p. 102. Ed. Desh. VIII. p. 153. ††)
— *Gray* in Zool. Journ. I. p. 62 exclus. speciebus.
— *Guilding* in Zool. Journ. III. p. 528.
— *Gray* Syn. Brit. Mus. Ed. 1842. p. 91.
— *Pfr.* in Chemn. ed. alt. I. 18. p. 10. (exclusa Alcadia.)
Helicinae Auctt. pars.
Olygyra Say in Journ. Acad. Philad. I. p. 283.

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*) T. minima, globulosa, lutea, transversim tenue striata; anfractibus convexiusculis, ultimo inflato ad suturam linea rubra notato; spira acuta; apertura minima; labro reflexo, albo, intus bidentato. — Diam. 3 lin. — Martinique. (Desh. l. c.)

**) T. depresso-ovata, spira conica, subtus subconvexa, fusca, spiraliter striata, striis albidis, rugosis; perist. reflexo, incrassato, albo, bidentato; columella basi concava. — Axis $^5/_{20}$, diam. $^3/_{10}$ poll. (Gray l. c.)

***) T. globosa, minute spiraliter striata; apertura subquadrata, margine lato, supra infraque unidentato. (Sow. l. c.)

†) Testa univalvis, subglobosa; umbilico nullo. Apertura integra, semiovata. Columella callosa, inferne depressa, planiuscula. (Lam. l. c.)

††) Testa subglobosa, imperforata. Apertura integra semiovalis. Columella callosa, transversa, planulata, margine acuta, ad basim infimam labri subangulata. Operculum corneum. (Lam. l. c.)

Pachytoma et *Oligyra Swains.* Malacol. p. 337.
Oligyra Gray in Proc. Zool. Soc. 1847. p. 182. N. 531.
Conf. *Desh.* in Lam. hist. VIII. p. 154 et *Herrmannsen* Gen. Malacoz. I. p. 508.

Conspectus specierum.

A. Peristomate introrsum subdentato (Lucidellae affines)	§. 1.	Nr.	1—7.
B. Peristomate introrsum non dentato,			
a. recto, incrassato, obtuso.			
α. Ecarinatae	§. 2.	—	8—17.
β. Carinatae	§. 3.	—	18—25.
b. recto, acuto.			
α. Globulosae vel conicae	§. 4.	—	26—34.
β. Depressae.			
1. Ecarinatae	§. 5.	—	35—42.
2. Carinatae	§. 6.	—	43—44.
c. expanso.			
α. Ecarinatae,			
1. subglobosae vel conicae.			
* Spira parvula	§. 7.	—	45—66.
** Spira anfr. ultimum aequante vel superante	§. 8.	—	67—85.
2. depressae	§. 9.	—	86—103.
β. Subcarinatae	§. 10.	—	104 119.
γ. Acute carinatae	§. 11.	—	120—143.
δ. Subbicarinatae	§. 12.	—	144—148.

§. 1.

1. H. Adamsiana Pfr. 564

T. depressa, tenuiuscula, sub lente seriebus confertis, concentricis pustularum exiguarum subasperata, nitidula, diaphana, rubella; spira brevissime conoidea; anfr. $5^{1}/_{2}$ planiusculi, ultimus depressus, peripheria rotundatus, antice non scrobiculatus; apertura obliqua, subtriangularis; columella verticalis, brevissima, basi subangulata, superne in callum tenuem, circumscriptum dilatata; perist. angulatim expansum, reflexiusculum, margine supero breviter soluto, stricto, basali prope columellam subdentato. — Operc.? — Diam. maj. 8, min. 7, alt. $4^{1}/_{3}$ mill. (Coll. N. 19.)

Helicina Adamsiana Pfr. in Proc. Zool. Soc. 1848. p. 119.
— — *Chemn.* ed. II. Helic. N. 1. p. 12. t. 7. f. 16. 17.

Habitat in insula Jamaica.

565 **2. H. depressa Gray.**

T. depressa, tenuis, lineis subobliquis et concentricis sub lente tenuissime decussata, pellucida, pallide cornea; spira vix elevata, mucronulata; anfr. 5 vix convexiusculi, celeriter accrescentes, ultimus depressus, superne pone aperturam scrobiculatus; apertura obliqua, triangularis; columella brevissima, lineam arcuatam, impressam, callum tenuem cingentem, emittens; perist. expansum, reflexiusculum, margine supero depresso, medio intus subdentato, basali substricto, juxta columellam unidentato. — Operc.? — Diam. maj. 7, min. 6, alt. $3^1/_2$ mill. (Mus. Cuming.)

Helicina depressa Gray in Zool. Journ. I. p. 69. t. 6. f. 14. *)
— — *Desh.* in Lam. hist. VIII. p. 164. N. 18.
— — *Sow.* Thes. N. 4. p. 3. t. 1. f. 47. **)
— — *Chemn.* ed. II. N. 2. p. 12. t. 7. f. 14. 15.

β. Spira paululum elatiore, dentibus aperturae obsoletioribus.
Helicina Leana Adams in Proc. Bost. Soc. 1845. p. 11. ***)
— *depressa var. Chemn.* l. c. f. 12. 13. (Spec. authent.)

Habitat in insula Jamaica.

566 **3. H. plicatula Pfr.**

T. depresse conoidea, solidula, oblique regulariter et elegantissime plicata, nitida, cornea; spira brevis, conoidea, acutiuscula; anfr. fere 5 convexiusculi, ultimus superne impressus, peripheria obsoletissime angulatus; apertura obliqua, semilunaris; columella brevissima, simplex, in callum tenuissimum diffusa; perist. subincrassatum, carneum, margine supero sinuato, basali juxta columellam subdentato. — Operc.? — Diam. maj. 5, min. 4, alt. 3 mill. (Mus. Cuming.)

Helicina plicatula Pfr. in Proc. Zool. Soc. 1848. p. 123.
— — *Chemn.* ed. II. N. 3. p. 13. t. 8. f. 36—39.
— *striatula Rang* in sched. Cuming. Nec Sow. Nec Pot. & Mich.

Habitat in insula Martinique.

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*) T. depresso-ovata, pellucida, fusca, tenuissima, spiraliter et concentrice striata, supra subtusque convexiuscula; perist. reflexo, incrassato, albo; columella partim callosa, labiis tenuibus, postice subunidentatis. — Axis fere $^3/_{20}$, diam. $^5/_{20}$ poll. (Gray l. c.)

**) T. alba, laevi, depressa, tenui; apertura transversim elongata; columella tringulari; labio externo depresso, supra infraque subdentato. (Sow. l. c.)

***) T. perdepressa, pallide rufa vel albida, epidermide exilissime hirsuta; anfr. $4^1/_2$ haud multum convexis, striis decurrentibus exilissimis ornatus; anfr. ultimo haud angulato; apertura a labri dentibus 2 obtusis supra

4. H. rugosa Pfr. 567

T. depressa, tenuiuscula, oblique elegantissime et confertim plicata, pellucida, nitida, rubello-succinea; spira brevis, conoidea; anfr. 5 convexiusculi, regulariter accrescentes, ultimus basi medio impressus; apertura integra, obliqua, semiovalis; columella simplex, brevissima; perist. albidum, breviter expansum, margine dextro sinuato, basali prope columellam unidentato; callus basalis tenuissimus. — Operc.? — Diam. maj. 4, min. $3^1/_2$, alt. 2 mill. (Coll. Nr. 20.)

Helicina rugosa Pfr. in Wiegm. Arch. f. Nat. 1839. I. p. 355.
— — *Sow.* Thes. N. 72. p. 14. t. 3. f. 132.
— — *Gould* in Bost. Journ. IV. 4. p. 493.
— — *Chemn.* ed. II. N. 4. p. 13. t. 4. f. 28—30.

Habitat in insula Cuba!

5. H. unidentata Pfr. 568

T. depressa, tenuiuscula, liris concentricis alternatim validis, obtusis et minoribus cincta, diaphana, nitidula, rubella; spira vix elevata; anfr. $4^1/_2$ depressi, ultimus antice descendens, basi medio profunde excavatus; apertura perobliqua, late lunaris; columella simplex, retrorsum in callum albidum circumscriptum dilatata; perist. expansum, intus albolabiatum, margine basali prope columellam dente magno, prominente instructo. — Operc.? — Diam. maj. 5, min. 4, alt. $2^1/_2$ mill. (Mus. Cuming.)

Helicina unidentata Pfr. in Proc. Zool. Soc. 1848. p. 125.
— — *Chemn.* ed. II. N. 5. p. 14. t. 9. f. 14—17.

β. Dente peristomatis minus exquisito. (Coll. Nr. 21.)
Helicina rusticella Morelet Test. noviss. p. 21. N. 51. *)

Habitat Honduras (Dyson); var. *β* in insula Carmen (Morelet).

6. H. lirata Pfr. 569

T. orbiculato-conoidea, tenuis, acute et confertim concentrice lirata, diaphana, albida; spira conoidea, acuta; anfr.

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et infra contracta; operculo tenui. — Diverg. 135°; alt. 0,13; lat. max. 0,27, lat. min. 0,22 poll. (Adams l. c.)

*) T. parvula, conoideo-depressa, subtus concava, spiraliter acute plicatula, corneo-rubella; anfr. 6 parum convexi, ultimus subtus leviter excavatus; columella arcuata, simplex; apertura irregularis, marginibus incrassatis, reflexis, latere columellari subunidentato — Diam. maj. 4—5, min. $3^1/_2$—$4^1/_2$ mill. (Mor. l. c.)

$4^1/_2$—5 vix convexiusculi, ultimus carinatus, basi medio impressus; apertura obliqua, rotundato-subtriangularis; columella brevissima, simplex, in callum basalem tenuissimum dilatata; perist. breviter expansum, margine basali medio obsolete unidentato. — Operc.? — Diam. maj. 4, min. $3^2/_3$, alt. $2^2/_3$ mill. (Coll. Nr. 22.)

Helicina lirata Pfr. in Zeitschr. f. Malak. 1847. p. 150.
— — *Chemn.* ed. II. N. 6. p. 14. t. 4. f. 40—43.

Habitat Mexico, Yucatan (Hegewisch).

570 7. **H. lineata Adams.**

T. depressa, tenuis, lineis elevatis concentricis, subconfertis sculpta, linea peripherica subcarinata, pellucida, fulvida; spira subconoideo-depressa, obtusiuscula; anfr. $4^1/_2$ convexiusculi, ultimus basi medio impressus, subtiliter callosus; apertura perobliqua, subtriangularis; columella brevissima; perist. breviter reflexum, margine basali introrsum dente valido, obtuso munito. — Operc.? — Diam. maj. 4, min. $3^1/_2$, alt. 2 mill. (Mus. Cuming.)

Helicina lineata Adams in Proc. Bost. Soc. 1845. p. 12. *)

Habitat in insula Jamaica.

§. 2.

571 8. **H. Sagraiana Orbigny.**

T. depresso-conoidea, crassa, solida, striatula, sub epidermide virente rubro-fusca; spira brevis, late conoidea, sordide rubra; anfr. $4^1/_2$, supremi planulati, ultimus convexiusculus, peripheria obsolete angulatus, antice deflexus; columella basi antrorsum arcuata, tuberculato-truncata, flava; apertura obliqua, intus purpurascens; perist. rectum, incrassatum, flavum, marginibus callo crasso, late semicirculari junctis, supero strictiusculo, basali a columella incisura semicirculari separato, intus plica tenui, pone columellam intrante incrassato. — Operc. semiovale, solidum, extus carneum, granulosum, intus nitidum, fusco-aurantiacum. — Diam. maj. $26^1/_2$, min. 22, alt. 15—16 mill. (Coll. Nr. 23.)

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*) T. depressa; anfr. $4^1/_2$, lineis elevatis parallelis distantibus decurrentibus ornatis; anfr. ultimo a linea majori subangulato; apertura *H. Leanae* simili. — Diverg. 112°; alt. 0,09; lat. max. 0,15; lat. min. 0,13 poll. (Adams l. c.)

Helicina Sagraiana Orb. Moll. Cub. I. p. 240. t. 18. f. 12. 13. *)
— — *Chemn.* ed. II. N. 7. p. 15. t. 1. f. 1—4.
— — *Desh.* Traité élém. Conch. t. 82. f. 21—24.
— *Sagra Sow.* Thes. N. 9. p. 3. t. 1. f. 10. t. 3. f. 126. **)
— — *Reeve* Conch. syst. II. t. 186. f. 14.
— — *Gould* in Bost. Journ. IV. 4. p. 492.

Habitat in insula Cuba: Callajabas (E. Otto), Cerro de Cuzco (Delâtre), Trinidad (Lavallée), Matanzas (Bartlett).

9. H. festiva Sowerby? 572

T. subglobosa, glabra, solidula, brunnea, rubicundo-strigata, strigis cingulo pallido interruptis; anfract. 4, ultimus maximus, obtuse carinatus; apertura lata, oblonga; labrum incrassatum, reflexum, basi subtuberculatum; callus columellaris latus albus. (Sow. in Beech.) — Diam. 25, alt. 16 mill. (Ex ic.)

Helicina festiva Sow. in Zool. of Beech. voy. p. 145. t. 38. f. 23.
— — *Sow.* Thes. N. 12. p. 4. t. 1. f. 9. ***)

Habitat . . .?

Obs. Species dubia, a Cl. Sowerby ex icone solum, ut videtur, descripta. Vix dubium mihi est, speciem a domino Sallé nuperrime ex insula Haiti allatam et ab amicissimo H. Cuming mecum communicatam esse eandem: „t. conoideo-globosa, solida, oblique striata, parum nitens; spira rubicunda, breviter conoidea, acutiuscula; anfr. 5 planiusculi, ultimus magnus, obsolete angulatus, fusco-virens, saturatius radiatus; columella leviter arcuata, callosa, basi subtuberculata, callum crassum album retrorsum emittens; apertura parum obliqua, semiovalis, intus fusco-rubra; perist. album, incrassatum, vix expansiusculum. — Operc. testaceum, margaritaceo-coerulescens. — Diam maj. 21, min. 17, alt. 14 mill. (Coll. N. 24.)"

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*) T. depresso-conoidea, crassa, sublaevigata, viridescente vel rubra; spira convexiuscula, conica, apice obtusa; anfr. 5 planis, contiguis; apertura triangulari, lutea; labro incrassato, non reflexo; columella callosa; aperturae angulo columellari fissurato. — Diam. 25, alt. 15 mill. — Cette coquille, la plus grande et la plus belle du genre, plus grande même que *l'H. major Gray*, est remarquable par la fissure de sa columelle et ses bords épaissis et nullement réfléchis, dernier caractère qui la distingue nettement de *l'H. major*. Elle est voisine de *l'H. pulcherrima Lea* de Java, mais diffère de la description de cet auteur. (Orbigny l. c.)

**) T. crassa, conoidea, subcompressa, concentrice substriata; apertura subtriangulari, labio externo vix reflexo; prope columellam sub-emarginato; labio interno expanso, calloso, columella sub-complanata, acuminata; epidermide fusca, viridescente. (Sow. l. c.)

***) T. *H. Sagrae* simili, sed concentrice lirata, interstitiis rubrolineatis. (Sow. l. c.)

573 10. **H. silacea Morelet.**

T. conoideo-depressa, solida, oblique profunde et confertim radiato-sulcata, albida, inter costas virens; spira convexo-conoidea, obtusula; anfr. 4½ subplanulati, ultimus peripheria subangulatus, zonaque virenti-fusca pallide marginata cinctus; columella recedens, alba, basi in tuberculum crassum terminata, retrorsum callum emittens crassum, circumscriptum latioremque hyalinum, ad marginem dextrum peristomatis extensum; apertura diagonalis, triangulari-semiovalis; perist. crassum, album, latum, margine supero stricto, sinuato, basali subreflexo. — Operc. testaceum, margaritaceum. — Diam. maj. 20, min. 16½, alt. 12 mill. (Mus. Poey.)

Helicina silacea Morelet Test. noviss. p. 20. N. 48. *)

Habitat in insula Cuba.

574 11. **H. submarginata Gray.**

T. depresso-conoidea, solida, oblique striatula, lineis impressis concentricis decussata, albida, vel fusco-aurantiaca, nitidula; spira brevis, acutiuscula; anfr. 4½ subplani, ultimus antice vix descendens, medio pallide cingulatus; apertura obliqua, intus albida vel rubella; columella basi breviter dextrorsum arcuata, in tuberculum angustum desinens; perist. rectum, vix incrassatum, marginibus callo tenuiusculo, diffuso junctis, basali plicam distinctam pone columellam immittente. — Operc. *H. Sagraianae*. — Diam. maj. 17, min. 14, alt. 12 mill. (Coll. Nr. 25.)

Helicina submarginata Gray in Zool. Journ. I. p. 68. t. 6. f. 11. **)
— — *Desh.* in Lam. hist. VIII. p. 162. N. 15.
— — *Orb.* Moll. Cub. I. p. 244. t. 19. f. 7. 8. ***)

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*) T. globoso-depressa, rustice costulata, subtus radiatim decussata, ochraceo-albescens, inter strigas saturatior, zona pallide marginata obscure cincta; anfr. 5 planulati; apertura subtrigona; perist. crassissimum, labiatum, reflexiusculum, nitidum, album, margine externo sinuoso, interno tuberculo columellari munito; ambobus callo crasso, hyalino, late expanso connexis. Diam. maj. 23, min. 18 mill. (Mor. l. c.)

**) T. depresso-ovata, obscurissime carinata, albido-fusca, concentrice substriata, spira convexa, distanter spiraliter substriata; subtus convexiuscula, laevigata; perist. subincrassato parum reflexo, labiis subincrassatis; aperturae angulo columellari subemarginato. — Axis ⅓, diam. $^7/_{10}$ poll. — Habitat? (Gray l. c.)

***) T. depressa, crassa, solida, transversim striata, albido-fulva, zona albida cincta; spira convexiuscula, obtusa; anfr. 5 planis, contiguis; apertura semilunari, labro incrassato, non reflexo; columella alba, incrassata;

Helicina submarginata *Sow.* Thes. N. 10. p. 3. t. 3. f. 123. 137. *)
— — *Gould* in Bost. Journ. IV. 4. p. 492.
— — *Chemn.* ed. II. N. 8. p. 16. t. 1. f. 8—10.
— *rubra Pfr.* in Wiegm. Arch. f. Naturg. 1839. I. p. 355.

Habitat in insula Cuba; rara circa Matanzas! prope Retiro (Gould).

12. H. pulcherrima Lea. 575

T. depresso-globosa, crassa, longitudinaliter plicato-striata, nitida, fusco-rubra vel viridi-lutescens; spira fornicata, obtusiuscula; anfr. $4\frac{1}{2}$ planiusculi, ultimus rotundatus, medio pallide cingulatus, antice breviter descendens, basi subconvexus; apertura obliqua, semiovalis, intus albida; columella alba, breviter antrorsum arcuata, basi in tuberculum desinens, retrorsum in callum basalem crassum, circumscriptum dilatata; perist. rectum, intus incrassatum, album, margine supero repando. — Operc. subsemicirculare, tenuiusculum, testaceum, intus rubellum. — Diam. maj. 16—20, min. 13—17, alt. 11—14 mill. (Coll. Nr. 26.)

Helicina pulcherrima Lea Observ. I. p. 161. t. 19. f. 57. II. p. 69.
— — *Sow.* Thes. N. 11. p. 4. t. 1. f. 14. **)
— — *Reeve* Conch. syst. II. t. 186. f. 6.
— — *Chemn.* ed. II. N. 9. p. 17. t. 1. f. 5—7. t. 6. f. 5. 6.
— *crassa Orb.* Moll. Cub. I. p. 243. t. 19. f. 5. 6. ***)

Habitat in insula Cuba.

13. H. sanguinea Pfr. 576

T. conoideo-orbiculata, crassa, punctato-striatula, opaca,

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aperturae angulo columellari dentato, emarginato. — Diam. 17, alt. 13 mill. (Orb. l. c.)

*) T. *H. Sagrae* simili, sed magis depressa, anfractu ultimo minori, magis rotundato. (Sow. l. c.)

**) T. *H. Sagrae* simili, sed magis globosa, striis concentricis regularibus, distinctis. (Sow. l. c.)

***) T. globulosa, crassa, longitudinaliter striata, rubro fusca, zona albescente ornata; spira convexiuscula, apice obtusa; anfr. 5 planis, contiguis; apertura semilunari, alba; labro crassissimo, non reflexo; columella callosa, alba; aperturae angulo columellari dentato. — Diam. 15—20, alt. 12—15 mill. — Par son épaisseur, par sa forme, cette espèce a beaucoup de rapports avec *l'H. Sagraiana;* bien moins grande pourtant, elle en diffère encore par sa superficie fortement striée, par sa forme plus globuleuse, sans tendance à la carène, par sa bouche sémilunaire, et enfin par le manque de scissure antérieure à la bouche. (Orb. l. c.)

sanguinea; spira brevis, conoidea, acutiuscula; anfr. $4^1/_2$ plani, ultimus utrinque convexiusculus, medio subangulatus; apertura obliqua, subtriangularis, altior quam lata; columella basi antrorsum dentata, callum tenuem, semicircularem retrorsum emittens; perist. rectum, intus sublabiatum, margine basali strictiusculo. — Operc.? — Diam. maj. $10^1/_2$, min. 9, alt. 6 mill. (Mus. Cuming.)

Helicina sanguinea Pfr. in Proc. Zool. Soc. 1848. p. 124.
— — *Chemn.* ed. II. N. 10. p. 17. t. 8. f. 20. 21.

Habitat Honduras (Dyson).

577 14. **H. striatula Sowerby.**

T. subsemiglobosa, solidiuscula, oblique striatula, diaphana, vix nitidula, fuscescenti-rufa; spira convexa, mucronulata; sutura linearis, submarginata; anfr. 6 planiusculi, ultimus vix convexior; columella brevissima, retrorsum in callum basalem tenuissimum abiens; apertura obliqua, subtriangulari-lunaris; perist. rectum, incrassatum, ad columellam obsolete tuberculiferum. — Operc.? — Diam. maj. $8^2/_3$, min. $7^2/_3$, alt. 5 mill. (Mus. Cuming.)

Helicina striatula Sow. in Proc. Zool. Soc. 1842. p. 6. *)
— — *Sow.* Thes. N. 6. p. 3. t. 1. f. 43.
— — *Chemn.* ed. II. N. 11. p. 18. t. 8. f. 32. 33

Habitat in insula Martinique.

Obs. Nomen forsan ob *H. striatulam Pot.* et *Mich.*, mihi incognitam, mutandum.

578 15. **H. occulta Say.**

T. orbiculata-conoidea, striata, crassa, sordide alba; spira conoidea, acuminata; anfr. $5^1/_2$ planiusculi, carinati, ultimus convexior, obtuse angulatus, antice paululum descendens; apertura perobliqua, integra, obtuse triangularis; columella subnulla, retrorsum callum basalem diffusum formans; perist. rectum, obtusum, intus incrassatum. — Operc.? — Diam. maj. 7, min. $6^1/_3$, alt. $4^1/_2$ mill. (Coll. Nr. 27.)

*) T. subdepressa, concentrice substriata, fulvo-rufescente; apertura subquadrata, margine albo, crasso, reflexo, integro, subsinuato, postice subdepresso. — Alt. 0,23, lat. 0,30 poll. — Hab.? — The margin of the aperture in this species is slightly lobed, and sinuous above and below. (Sow. l. c.)

Oligyra occulta Say in Transylv. Journ. of Medic. IV. p. 529.
— — *Say* Amer. Conchol. t. 46. f. 4—6. Ed. Chenu (Bibl. conch. III.) p. 57. t. 15. f. 2 b—d.
Helicina occulta Chemn. ed. II. N. 12. p. 18. t. 4. f. 11. 12.

Habitat in America boreali. An subfossilis?

Obs. Specimina descripta cum icone Sayana omnino quadrant; alia testa in Musaeo Cumingiano eodem nomine designata (in *Chemn.* ed. II. t. 10. f. 32. 33. figurata) ei minus convenit.

16. **H. pisum Philippi.** 579

T. conoideo-depressa, crassa, solida, laevissima, flava; spira conoidea, subacuta; anfr. 4½ planiusculi, ultimus antice oblique descendens, medio obsolete angulatus, basi planulatus; apertura obliqua, subtriangularis; columella simplex; perist. rectum, obtusum; callus basalis concolor, nitidus. — Operc. triangulare, luteum. — Diam. maj. 6, min. 5, alt. 4 mill. (Coll. Nr. 28.)

Helicina pisum Phil. in Zeitschr. f. Malak. 1847. p. 124. *)
— — *Chemn.* ed. II. N. 13. p. 19. t. 2. f. 30 32.

β. Paulo major, interdum fusciis 2 subtilibus albis ornata, perist. crasso.

Habitat in insulis Sandwich. (Largilliert.)

17. **H. Orbignyi Pfr.** 580

T. depressa, sublenticularis, solida, striatula, vix nitida, fusco-carnea; spira vix elata; anfr. 4½ planiusculi, ultimus depressus, subangulatus, non descendens; apertura obliqua, semiovalis, altior quam lata; columella brevis, basi antrorsum dentata, callum albidum semicircularem retrorsum emittens; perist. rectum, subincrassatum, juxta dentem columellae non emarginatum. — Operc. semiovale, castaneo-rubellum. — Diam. maj. 7⅓, min. 6⅓, alt. 4 mill. (Mus. Cuming.)

Helicina Orbignyi Pfr. in Proc. Zool. Soc. 1848. p. 123.
— — *Chemn.* ed. II. N. 17. p. 21. t. 8. f. 30. 31.

Habitat in insula Cuba.

Obs. Similis *H. crassilabri Phil.*

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*) T. parva, globoso-conoidea, solida, laevissima, pallide flava; anfractu ultimo obscure angulato; sutura domum oblique descendente; apertura triangulari, angusta; labro simplice crasso; labio calloso. — Alt. 1½‴; diam. 2½‴. — Testa admodum solida minime carinata, ideoque ab *H. solidula* et *H. crassilabri* facillime distinguenda, magnitudine et colore *H. parvae Sow.* ex Philippinis simillima, sed apertura longe diversa, quae in *H. parva* dilatata et semilunaris est. (Philippi l. c.)

§. 3.

581 18. **H. Maugeriae Gray.**

T. depressa, sublenticularis, carinata, crassa, sublaevigata, luteo-albida, fasciis 2 latis rubris cincta; spira brevis, convexa, submucronata; anfr. $4^1/_2$ planiusculi, ultimus basi convexior, antice vix descendens; apertura peroblíqua, angusta, lunaris; columella basi brevissime antrorsum arcuata, retrorsum in callum crassissimum, prominentem, citrinum dilatata; perist. crassum, rectum, pallide lutescens, marginibus callo junctis, supero repando, basali juxta columellam subemarginato. — Operc.? — Diam. maj. 12, min. 10, alt. 7 mill. (Coll. Nr. 29.)

Helicina Maugeriae Gray in Zool. Journ. I. p. 251. *)
— — *Gray* in Zool. of Beech. voy. t. 38. f. 25.
— — *Sow.* Thes. N. 8. p. 3. t. 2. f. 55. **)
— — *Chemn.* ed. II. N. 14. p. 19. t. 6. f. 23. 24.

Habitat . . .?

582 19. **H. Rohri Pfr.**

T. conoidea, crassa, striatula et submalleata, opaca, vix nitidula, stramineo-albida vel purpurea, albo-fasciata; spira conoidea, acutiuscula; anfr. $4^1/_2$—5 planiusculi, ultimus superne turgidus, ad peripheriam carina acuta, compressa, prominente munitus, antice deflexus, basi vix convexus; apertura obliqua, parvula, semiovalis, altior quam lata; columella subsimplex, basi obsolete tuberculata, callum semicircularem album retrorsum emittens; perist. rectum, acutum, intus crasse albolabiatum, margine supero emarginato. — Operc.? — Diam. maj. 10, min. $8^2/_3$, alt. 7 mill. (Coll. Nr. 30.)

Helicina Rohri Pfr. in Proc. Zool. Soc. 1848. p. 124.
— — *Chemn.* ed. II. N. 15. p. 20. t. 7. f. 24—27.
— *Marchionissa Hombr.* et *Jacq.* Voy. Pol. Sud. Moll. t. 11. f. 13—17? (Nukahiwa.)

Habitat in insulis Marquesas (Rohr).

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*) T. depresso-ovata, carinata, albida, lutea unifasciata, supra infraque conica convexa; perist. subreflexo luteo, columella callosa lutea. — Axis $^5/_{16}$, diam. $^1/_2$". (Gray l. c.)

**) T. crassa, depressa; anfractibus unicarinatis; labio interno crasso, magno; columella angustata; labio externo crasso, supra infraque subemarginato. (Sow. l. c.)

20. **H. miniata Lesson.** † 583

T. subglobosa, orbiculata, solida, crassa, superne minutim striata; spira rubra, convexa, depressa; anfr. ultimus crassus, subcarinatus, albidus; apertura obliqua, triangularis; columella laevis (»épatée«); perist. simplex. — Diam. 5, alt. 3 lin. (L.)

Helicina miniata Less. Voy. de la Coquille p. 349. t. 13. f. 9.

Habitat in cacumine montis centralis insulae Borabora.

21. **H. crassilabris Philippi.** 584

T. depressa, sublenticularis, solida, opaca, laevigata, albida, corneo obsolete variegata; spira vix elevata, vertice mucronulato; sutura linearis; anfr. $4^1/_2$ plani, celeriter accrescentes, ultimus simpliciter carinatus, antice vix descendens, basi parum convexus; apertura perobliqua, triangularis; columella brevissima, angulo rotundato cum perist. recto, obtuso, intus incrassato juncta; callus basalis crassiusculus, circumscriptus, nitidus. — Operc.? — Diam. maj. 7, min. $6^1/_3$, alt. 4 mill. (Coll. Philippi.)

Helicina crassilabris Phil. in Zeitschr. f. Malak. 1847. p. 125. *)
— — *Chemn.* ed. II. N. 16. p. 20. t. 2. f. 33—36.

Habitat in insulis Sandwich.? (Philippi); specimina Musaei Cumingiani in Venezuela a Cl. Linden lecta dicuntur.

22. **H. solidula Gray.** 585

T. semiglobosa, crassa, solida, laevigata, nitida, flavida vel carnea; spira convexa, obtusa; sutura linearis; anfr. 5 planulati, ultimus antice vix descendens, convexiusculus, peripheria carinatus: carina subacuta, inferne linea impressa marginata; apertura perobliqua, subtriangulato-lunaris, intus aurea; columella simplex, cum perist. angulum acutum formans; perist. rectum, obtusum, marginibus callo basali semicirculari, aureo, nitido junctis. — Operc.? — Diam. maj. 7, min. $6^1/_2$, alt. 4 mill. (Coll. Nr. 31.)

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*) T. depressa, lenticulari, carinata, solida, albida, laevi; apertura triangulari, perobliqua; labro intus incrassato; labio admodum calloso. — Alt. $1^1/_4$; diam. $2^1/_4$'''. — Carina obtusiuscula testam in duas partes aequales dividit. Spira convexa, haud conica. Labrum late et sensim incrassatum; extremitas superior ejus valde producta, in callum basalem continuata. Affinis videtur *H. solidulae Gray*, sed haec species multo magis elevata est, aperturamque alienam, haud triangularem habet. (Phil. l. c.)

Helicina soliduta Gray in Zool. of Beech. voy. p. 146. t. 38. f. 26. *)
— — *Sow.* Thes. N. 7. p. 3. t. 2. f. 52—54. **)
— — *Chemn.* ed. II. N. 18. p. 21. t. 2. f. 26—29.

Habitat in insula Elizabethae (H. Cuming).

586 23. **H. lens Lea.** †

T. parva, lenticularis, supra lutea, subtus rufa; anfr. 3, quorum inferior carinatus; spira plano-convexa; apertura dilatata; labrum crassum; columella subcallosa et luteola. — Diam. $^5/_{20}$, long. $^4/_{20}$ poll. (Lea.)

Helicina lens Lea Observ. I. p. 161. t. 19. f. 56. ***)
— — *Sow.* Thes. t. 1. f. 48.

Habitat in insulis Feejee.

587 24. **H. constricta Pfr.**

T. parva, lenticularis, crassa, sublaevigata, non nitida, opaca, albida, lineis undulatis rubris picta; spira vix elevata, obtusa; anfr. $4^1/_2$ planulati, ultimus angulatus, basi subturgidus, pone aperturam constrictus; apertura obliqua, subtriangularis, intus rubra; columella simplex, callum crassiusculum albidum retrorsum emittens; perist. simplex, obtusum, latere dextro rotundatum. — Operc. tenuiusculum, semiovale, succineum. — Diam. maj. 6, min. 5, alt. $3^1/_2$ mill. (Coll. Nr. 32.)

Helicina constricta Pfr. in Proc. Zool. Soc. 1848. p. 120.
— — *Chemn.* ed. II. N. 19. p. 22. t. 7. f. 37—39.

β. Callo basali igneo:
Helicina rhodostoma Migh. in sched. Cuming. Nec Sow.

Habitat in insulis Sandwich.

588 25. **H. lenticularis Sowerby.** †

T. globoso-lenticularis, carinata, laevis, superne aurantiaca; sutura alba; apertura extus angulata; subtus pallida, convexi-

*) T. subglobulari, glabra, solida, crassa, flava; anfr. 4 subventrosis, ultimo magno, obtuse carinato; apertura parva, margine externo obtuse angulata; peristomate crasso. (Gray l. c.)

**) T. crassa, depresso-conica; anfractibus carinatis; labio interno calloso, externo crasso, prope columellam sub-coarctato. (Sow. l. c.)

***) The lenticular form and sharp carina of the body whorl distinguish this species. Within it is orange, and about the base of the shell there is a disposition to yellow. (Lea l. c.)

uscula; perist. incrassatum; columella basi callosa, aurantiaca. (Sow.) — Dimens.?

Helicina lenticularis Sow. in Catal. Tank. App. p. VIII. n. 1024. *)

Habitat in insulis Maris Pacifici.

§. 4.

26. H. cingulata Pfr. 589

T. conoideo-globosa, solidiuscula, subconfertim spiraliter striata, opaca, carneo-albida, luteo-bicingulata; spira lutea, convexo-conoidea, apice acutiuscula; anfr. $5^1/_2$ convexiusculi, ultimus rotundatus; columella brevis, verticalis, basi subdentata, callum emittens tenuem, subcircumscriptum; apertura vix obliqua, semiovalis; perist. simplex, rectum, margine basali leviter arcuato, cum columella angulum formante. — Operc.? — Diam. maj. $7^1/_2$, min. $6^2/_3$, alt. 5 mill. (Mus. Cuming.)

Helicina cingulata Pfr. in Proc. Zool. Soc. 9 Mart. 1852.

Habitat in insula Haiti (Sallé).

27. H. costata Gray. 590

T. conica, solidula, spiraliter costato-striata, albida vel lutea; spira conica, acuminata; anfr. 6 vix convexiusculi, ultimus spira brevior, antice non descendens, basi subplanatus; apertura obliqua, integra, ovali-subtriangularis, intus lutea; columella brevis, recedens, retrorsum in callum basalem tenuem, nitidum dilatata; perist. simplex, rectum. — Operc. immersum, tenue, lutescenti-corneum. — Diam. maj. 6, min. $5^1/_3$, alt. $5^1/_3$ mill. (Coll. Nr. 33.)

Helicina costata Gray in Zool. Journ. I. p. 67. t. 6. f. 6. **)
— — *Desh.* in Lam. hist. VIII. p. 161. N. 11.
— — *Sow.* Thes. N. 22. p. 5. t. 1. f. 20. ***).
— — *Chemn.* ed. II. N. 20. p. 22. t. 4. f. 31—33. t. 8. f. 20.

Habitat in insula Jamaica.

*) This little shell in general form approaches very near to *H. viridis Gray*. (Sow. l. c.)

**) T. depresso-ovata, lutea, spiraliter striato-costata, spira conica, subtus subconvexa; perist. incrassato, subreflexo, luteo, labiis subincrassatis. — Axis $^3/_{20}$, diam. $^3/_{10}$ poll. (Gray l. c.)

***) T. minuta, *H. virgineae* simili, sed costis paucis; columella angustiori; labio externo vix expanso. (Sow. l. c.)

591 28. **H. Dominicensis Pfr.**

T. globoso-conica, solidula, concentrice confertim striata, parum nitida, albida, luteo- vel fulvo-zonata; spira conica, acuta; anfr. 6 planiusculi, sutura profunda juncti, ultimus convexior, vix descendens; columella brevissima, basi denticulata, callum emittens tenuem, vix circumscriptum; apertura parum obliqua, semiovalis; perist. acutum, subrectum. — Operc. tenue, testaceum, carneum, margine columellari elevato. — Diam. maj. $6^1/_3$, min. $5^3/_4$, alt. 5 mill. (Mus. Cuming.)

Helicina Dominicensis Pfr. in Proc. Zool. Soc. 1850.

Habitat in insula Haiti (Sallé).

592 29. **H. rotelloidea Mighels.**

T. conica, tenuis, sublaevigata, nitida, olivaceo-flavida, flammis rufis superne picta; spira conica, obtusiuscula; anfr. 5 convexi, discreti, ultimus medio subangulatus, basi vix convexus; apertura parum obliqua, subtriangularis, aeque alta et lata; columella subverticalis, cum margine basali peristomatis simplicis, acuti angulum fere rectum formans; callus basalis tenuissimus. — Operc. tenue, testaceum. — Diam. maj. $5^1/_2$, min. 5, alt. 4 mill. (Coll. Nr. 34.)

Helicina rotelloidea Migh. in Proc. Bost. Soc. 1845. p. 19. *)
— — *Chemn.* ed. II. N. 21. p. 23. t. 3. f. 40-43.
— *Bronniana Phil* in Zeitschr. f. Malak. 1847. p. 124. **)

Habitat in insulis Sandwich., Oahu (Migh.).

593 30. **H. laciniosa Mighels.**

T. subconica, tenuiuscula, striatula, vix nitidula, cinnamomea, irregulariter albido strigata et maculata; spira conoidea, acutiuscula; anfr. 4—$4^1/_2$ vix convexiusculi, ultimus peripheria lineis 1—3 subelevatis signatus, basi planiusculus; columella brevissima, callum nitidum, diffusum retrorsum emittens; apertura obliqua, subtriangulari-semiovalis; perist.

*) Shell orbicular, low conical, convex at the base, sometimes reddish brown, sometimes greenish, with obscure light spots, surface smooth; whorls about $3^1/_2$, convex; aperture semilunate; lip simple, acute. — Diam. from $^1/_{10}$ to $^3/_{25}$ inch. (Migh. l. c.)

**) T. minima, conica, laevissima, flavida, flammis rufis picta; anfractibus superius planis, inferius convexis, discretis, ultimo medio rotundato-angulato; apertura semilunari aeque alta ac lata; labro simplicissimo; labio callo tenui obtecto; operculo calcareo. — Alt. 2'''; diam. $2^1/_2$'''. (Phil. l. c.)

simplex, rectum, acutum, margine basali cum columella angulum subrectum formante. — Operc. tenue, corneum. — Diam. maj. 4, min. $3^1/_3$, alt. $2^1/_2$ mill. (Coll. Nr. 35.)

Helicina laciniosa Migh. in Proc. Bost. Soc. 1845. p. 19. *)
— — *Gould* Exped. shells 1851. p. 99. f. 108.

Habitat in insula Oahu.

31. **H. vestita Guilding.** † 594

T. globosa, tenuis, concentrice lyrata, parva; apertura semilunaris; labium externum tenue. (Sow.) — Diam. et altit. circa 2 mill. (Ex ic.)

Helicina vestita Guild. in Sow. Thes. N. 71. p. 14. t. 1. f. 42.

Habitat in America boreali.

32. **H. margaritacea Lesson.** † 595

T. globulosa, vitrea, fragilis, lutescenti-albida, pellucidissima; spira convexiuscula; apertura hemisphaerica; perist. tenuissimum, simplex, margine columellari subimpresso. — Diam. 2, alt. $1^1/_2'''$. (L.)

Helicina margaritacea Less. Voy. de la Coquille p. 350.

Habitat in Nova Guinea.

33. **H. exigua Pfr.** 596

T. minutissima, conica, tenuis, subtilissime punctato-striatula, pellucida, pallide cornea; spira conica, obtusiuscula; anfr. 5 perconvexi, ultimus obsolete angulatus, basi planiusculus; apertura obliqua, lunaris; columella breviter recedens, callum exiguum emittens; perist. simplex, tenue. — Diam. $2^1/_2$, alt. 2 mill. (Mus. Cuming.)

Helicina exigua Pfr. in Proc. Zool. Soc. 1848. p. 121.

Habitat Honduras (Dyson).

34. **H. multicolor Gould.** † 597

T. parva, solidula, conico-globosa, tenuissime striata,

*) Shell orbicular, convex, reddish brown, interspersed with irregular light spots; whorls 5, more or less flattened, with 2—3 raised lines, revolving over the middle of the outer whorl; aperture semilunar; lip simple, acute. — Diam. $^3/_{20}$ inch. (Migh. l. c.)

citrina, interdum fusco-fasciata, vel omnino fusco-rubra, subtus convexa; spira anfr. 4 convexiusculis, ultimo ad peripheriam rotundato; sutura impressa; apertura lunata, lata; perist. simplex, acutum, ad basim obtuse angulatum; columella expansa, callo copioso induta. — Lat. $^{3}/_{20}$, alt. $^{1}/_{10}$ poll. (G.)

Helicina multicolor Gould in Proc. Bost. Soc. 1847. p. 202; Exped. shells p. 36. Ed. 1851. p. 100. f. 110. *)

Habitat in insula Tongataboo.

597a ·34a **H. microdina Morelet.** †

T. parvula, conica, transversim minute striata, spiraliter lirata, flava, sursum saturatior; anfr. 6 convexi, ultimus angulatus; columella arcuata, superne callosa, subdilatata; apertura obliqua, ovalis, margine simplice, recto. — Alt. 4, diam. 4 mill. (Mor.)

Helicina microdina Morelet Testac. noviss. II. p. 18. N. 124.

Habitat vulgaris in prov. Vera Paz Guatemalae.

Obs. „Primo aspectu *H. rupestri Pfr.* congruit, quamvis in universum ab ea dissimilis."

§. 5.

598 35. **H. beryllina Gould.** †

T. solidula, depresso-conica, infra convexa, ad peripheriam obtuse angulata, polita, albido-virens; spira anfr. 5 planulatis, ultimo cite crescente; sutura linearis; apertura magna, transverse semi-elliptica; perist. simplex; callus columellaris late expansus. — Lat. $^{1}/_{2}$, alt. $^{3}/_{8}$ poll. (G.)

Helicina beryllina Gould in Proc. Bost. Soc. 1847. p. 202; Exped. shells p. 37. Ed. 1851. p. 95. f. 111. **)

Habitat in insulis Feejee.

599 36. **H. platychila Mühlfeldt.**

T. conoideo-semiglobosa, opaca, subnitida, laevis, virentiflava vel rubella; spira conica, mucronulata; sutura plana;

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*) A very delicate species, and one of the smallest known, and principally remarkable for its variable coloring (Gould l. c.)

**) Rather large as to size, and remarkable for its delicate beryl-green tint and polished surface. The outer whorl enlarges very rapidly. In form it resembles *H. similis Sow.* (Gould l. c.)

anfr. $5^1/_2$, supremi planulati, ultimus peripheria magis minusve angulatus, basi planiusculus; apertura obliqua, subtriangularis; columella brevis, basi tuberculum in callum basalem retrorsum abiens formans; perist. simplex, breviter expansum. — Operc. immersum, tenue, corneum, distincte concentrice striatum. — Diam. maj. 10, min. 9, alt. $6^1/_2$ mill. (Coll. Nr. 36.)

Helix platychilos Mühlf. in Verhandl. Berl. Ges. I. 4. p. 219. t. 3. f. 11.
Helicina platychila Pfr. Symb. hist. Helic. II. p. 95.
— — *Chemn.* ed. II. N. 22. p. 24. t. 4. f. 22—24.
— *neritella Pot.* et *Mich.* Gal. Douai I. p. 230. t. 23. f. 7. 8.?
— *unicolor Fér.* Mus., *Pot.* et *Mich.* ib. p. 231. t. 23. f. 15. 16. (in tab. err. f. 19. 20.) *)
— *lutea Sow.* Thes. N. 24. p. 6. t. 2. f. 59. **)

β. Paulo major, solidior, rufa. (Mus. Cuming.)
Helicina lutea var. Sow. Thes. t. 3. f. 142.
— *platychila var. Chemn.* l. c. t. 7. f. 8. 9.

Habitat in insulis Guadeloupe et Martinique; Cuba?

37. H. subfusca Menke. 600

T. subdepressa, tenuis, oblique distincte striata, subpellucida, parum nitida, virenti-cornea; spira brevis, apice acutiuscula; anfr. 5 vix convexiusculi, ultimus subdepressus, basi planiusculus; apertura obliqua, semiovalis; columella brevis, basi denticulum acutum formans; perist. simplex, acutum, margine dextro non sinuato; callus basalis tenuissimus. — Operc. semiovale, tenue, rubellum. — Diam. maj. $8^1/_3$, min. $7^1/_3$, alt. 5 mill. (Coll. Nr. 37.)

Helicina subfusca Menke Synops. p. 79. Ed. II. p. 133. ***)
— — *Chemn.* ed. II. N. 23. p. 24. t. 4. f. 34—36.
— *rotellina Pot.* et *Mich.* Gal. Douai I. p. 230. t. 23. f. 11. 12. †)

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*) T. trochiformis, pallide flava vel viridis, subtiliter longitudinaliter striata; anfr. 6 planiusculi; apertura semilunaris; perist. simplex, acutum; facies infima convexa; peripheria carinata; apex obtusus, parum prominens. — Alt. 8 mill., diam. bas. 10 mill. (Pot. et Mich. l. c.)

**) T. globosa, subangulata, laevi; labio externo paululum expanso, vix incrassato; labio interno leviter incrassato. (Sow. l. c.)

***) T. orbiculato-convexa, longitudinaliter striata, pallide fusca; apertura semilunari; columellae callo explanato; labro simplici, acuto. — Alt. 2''', lat. $3^1/_2$'''. — Portorico; inter fabas Coffeae reperta. (Menke l. c.)

†) T. orbiculari, convexo-plana, laevissima, pallide fulvo-virente aut lutescente; anfr. 5 contiguis; apertura semilunari; perist. acuto, ad columellam unidentato, dente minimo; infima facie convexa. — Diam. 8, alt. 5 mill. — Ins. St. Thomas. (Pot. et Mich. l. c.)

Helicina Hornbeckii Phil. in Zeitschr. f. Malak. 1847. p. 125. *)

β. Testa saturatiore, castanea. (Mus. Cuming.)

Helicina castanea Guild. in *Sow.* Thes. N. 67. p. 13. t. 1. f. 31. 32.**)

— *subfusca var. Chemn.* l. c t. 8. f. 37. 38.

Habitat in insulis St. Thomas, Portorico, etc.

601 38. **H. nitida Pfr.**

T. subdepressa, utrinque convexiuscula, tenuis, glabra, nitida, pellucida, saturate incarnata; spira parum elevata, apice mucronulata; anfr. 5 planiusculi, celeriter accrescentes, ultimus non descendens; apertura parum obliqua, subtriangularis; columella brevissima, verticalis, basi denticulum acutum formans; perist. simplex, acutum, margine supero antrorsum curvato; callus basalis tenuissimus. — Operc. membranaceum, concolor. — Diam. maj. 8, min. 7, alt. $5^1/_2$ mill. (Coll. Nr. 38.)

Helicina nitida Pfr. in Wiegm. Arch. f. Nat. 1839. I. p. 355.

— — *Sow.* Thes. N. 68. p. 13. t. 3. f. 116.

— — *Chemn.* ed. II. N. 24. p. 25. t. 4. f. 19–21.

— *glabra Gould* in Proc. Bost. Soc. I. p. 138.

— *orbiculata Sow.* Thes. N. 65. p. 13. t. 1. f. 33. 34? ***) Nec Say.

Habitat in insula Cuba; frequens circa Matanzas!

Obs. Variat spira paulo elatiore.

602 39. **H. cornea Sowerby.** †

T. *H. orbiculatae* simillima, sed crassiori; labio externo ad basin columellae subemarginato; columella callosa. (Sow.) — Diam. fere 4, alt. fere 3 mill. (Ex ic.)

Helicina cornea Sow. Thes. N. 66. p. 13. t. 1. f. 35. 36.

Habitat . . .?

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*) T. subdepressa, tenui, cornea, tenuissime sed exquisite radiatim striata; apertura altiore quam lata; labro simplicissimo, superius haud sinuato; labio distincte calloso, ad angulum columellarem acute dentato. — Alt 2, diam. 3'''. — St. Thomas (Hornbeck). — Haec species primo intuitu simillima *H. nitidae Pfr.*, sed facile distinguenda colore, striis, unde nitor longe minor, labro superius non producto, callo umbilicali majore. — *H. striata Lam.*, quae pariter „oblique striata“, labro margine subreflexo et magnitudine 5 linearum longe diversa videtur. — Anfr. 5, plani, superiores imo medio aliquantulum depressi. (Phil. l. c.)

**) T. *H. orbiculatae* simili, sed laevi, depressa; labio externo tenui. — America borealis. (Sow. l. c.)

***) T. parva, globosa, depressa, concentrice tenuissime striata; labio interno subcalloso; columella obliqua, subangulata; labio externo tenui, subreflexo. (Sow. l. c.)

40. **H. rotunda Orbigny.** † 603

T. globuloso-rotunda, crassa, laevigata, rosea; spira inflata, apice acuminato; anfr. 6 minime convexi; apertura angusta, semilunaris; labrum tenue, subreflexum; columella incrassata, impressa; aperturae angulus columellaris emarginatus, sinuosus. — Diam. 8, long. 7 mill. (O.)

Helicina rotunda Orb. Moll. Cub. I. p. 252. t. 21. f. 1—3. *)
— — *Sow.* Thes. N. 69. p. 13. t. 3. f. 111. **)

Habitat in interiore insulae Cubae (Sagra).

41. **H. rustica Pfr.** 604

T. conoideo-depressa, tenuis, oblique costulata, pallide cornea; spira breviter conoidea, obtusiuscula; anfr. $3^1/_2$ convexiusculi, ultimus depressus, antice non descendens, basi subplanatus; apertura perobliqua, late semiovalis; columella brevis, verticalis, simplex, callum circumscriptum, vitreum retrorsum emittens; perist. simplex, rectum, margine basali strictiusculo. — Operc.? — Diam. maj. $3^2/_3$, min. 3, alt. 2 mill. (Coll. Nr. 39.)

Helicina pallida Pfr. in Zeitschr. f. Malak. 1848. p. 86. Nec Gould.
— *rustica Pfr.* in Chemn. ed. II. N. 25. p. 26. t. 9. f. 26—29.

Habitat in insula Tahiti.

42. **H. inconspicua Pfr.** 605

T. minuta, depresso-conoidea, tenuis, vix nitidula, laevigata, fusca; spira brevissime conoidea, obtusiuscula; anfr. $3^1/_2$ vix convexiusculi, ultimus subdepressus, rotundatus, antice non descendens, basi parum convexus; apertura obliqua, semiovalis; columella recedens, basi lineam arcuatam, impressam, callum albidum, inflatum circumscribentem emittens; perist. simplex, rectum. — Operc.? — Diam. maj. 3, min. $2^1/_2$, alt. 2 mill. (Mus. Philippi.)

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*) Columelle encroutée sur la moitié de la largeur de la bouche et ayant au milieu une forte dépression triangulaire; en avant, son angle est un peu saillant et séparé du reste du bord par une légère échancrure. Couleur blanc rosé, le sommet de la spire rouge, la bouche jaune. — De toutes les espèces que nous avons décrites, c'est la plus globuleuse et celle dont l'ensemble de la spire est plus renflé. (Orb. l. c.)

**) T. globosa, conica, nitida, tenui; labio externo tenui, superne sinuato, depresso. (Sow. l. c.)

Helicina inconspicua Pfr. in Zeitschr. f. Malak. 1848. p. 86.
— — *Chemn.* ed. II. N. 26. p. 26. t. 9. f. 18—21.

Habitat in insula Tahiti.

§. 6.

606 43. **H. zonata Lesson.** †

T. orbicularis, superne depressa, subtus convexiuscula, tenuis, fragilis, vix striatula, lutea, superne sanguineo-zonata; spira vix convexa, depressa; anfractus ultimus fortiter carinatus; apertura obliqua, superne angulosa; columella indistincta, tumidula; perist. simplex, tenue. — Diam. $3\frac{1}{2}$, alt. 2'''. (L.)

Helicina zonata Less. Voy. Coquille. Zool. II. 1. (1830.) p. 350.

Habitat in insula Oualan.

607 44. **H. villosa Anton.**

T. orbiculata, sublenticularis, tenuis, pellucida, cornea, acute carinata, epidermide tenui ad carinam in cilias producta induta; spira parum elevata, mucronata; anfr. 5 planuli, supra carinam lineis 3 elevatis muniti, ultimus basi convexiusculus, laevigatus; apertura subtriangularis; columella brevissima, angulo acuto in perist. simplex abiens; callus basalis nitidus, linea alba arcuata circumscriptus. — Operc.? — Diam. maj. $5\frac{1}{3}$, min. $4\frac{1}{2}$, alt. 3 mill. (Mus. Cuming. & Anton.)

Helicina villosa Anton Verz. p. 53. N. 1937. *)
— — *Chemn.* ed. II. N. 27. p. 27. t. 5. f. 31—34.
— *pilosa Sow.* Thes. N. 58. p. 12. t. 3. f. 121. 122. **)

Habitat in insula Opara.

§. 7.

608 45. **H. globosa Gray.**

T. subglobosa, solida, spiraliter striata, opaca, flavescenti-albida; spira convexa, mucronata; anfr. 7 vix convexiusculi,

*) T. tenui, orbiculato-depressa, nitida, fusca, epidermide villosa induta; anfr. 4 planis, exsertis, ultimo superne acute carinato, juxta carinam striis 3 concentricis signato, caeterum subtiliter longitudinaliter striato, basi glabro, callo lacteo subexcavato munito; apertura trigona; perist. acuto. — Diam. $2\frac{1}{4}$, alt. $1\frac{1}{4}$ lin. (Anton l. c.)

**) T. parva, cornea, angulata, supra angulum distanter spiraliter striata; labio externo vix reflexo; epidermide ad angulum in carinam pilosam producta. (Sow. l. c.)

ultimus inflatus; apertura obliqua, integra, subtriangulari-semiovalis; columella arcuata, planata; perist. incrassatum, breviter expansum, marginibus callo tenuissimo junctis. — Operc. testaceum, tenuiusculum, margine columellari incrassato, extus margaritaceo-album, intus pallide fusculum. — Diam. maj. 20, min. 16, alt. 17 mill. (Mus. Cuming.)

Helicina globosa Gray in Beech. voy. Zool. p. 145. t. 38. f. 22. *)
— — *Sow.* Thes. N. 21. p. 5. t. 1. f. 24. **)
— — *Chemn.* ed. II. N. 34. p. 31. t. 5. f. 7. 8.
β Minor, anfr. 6. (Coll. Menke.)
Helicina mucronata Menke mss olim.
— *globosa var. Chemn.* l. c. t. 5. f. 16. 17.

Habitat in insula Haiti (Sallé).

46. **H. Cumingiana Pfr.** 609

T. subglobosa, tenuiuscula, longitudinaliter et confertim plicatula, carnea, rubro punctata et variegata; spira brevis, conoidea, obtusiuscula; anfr. 5½ planiusculi, ultimus inflatus, obsolete angulatus; apertura subverticalis, semiovalis; columella basi dilatata, antrorsum arcuata, subtruncata, retrorsum in callum basi crassum, superne diffusum abiens; perist. subincrassatum, breviter expansum, album. — Operc.? — Diam. maj. 21, min. 17½, alt. 16½ mill. (Mus. Cuming.)

Helicina Cumingiana Pfr. in Proc. Zool. Soc. 1848. p. 121.
— — *Chemn.* ed. II. N. 35. p. 31. t. 6. f. 13. 14.

Habitat . . .?

47. **H. adspersa Pfr.** 610

T. conico-globosa, solida, sublaevigata, lineis concentricis nonnullis superne interdum obsolete decussata, albida, fasciis irregulariter rufo-adspersis ornata; spira conica, acutiuscula; anfr. 5, supremi planulati, 2 ultimi convexi, ultimus antice vix descendens; apertura triangularis, intus rufa, altior quam lata; columella basi incrassata, antrorsum attenuata, angulo obtuso in perist. simplex, patulum abiens; callus basalis diffusus, albus. — Operc. solidiusculum, semiovale, extus convexius-

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*) T. fere globulari, apice elato-acuminata, glabra, tenuiter spiraliter striata, pallide fusca; anfr. 5; sutura distincta; apertura lata; peristomatis margine exteriore expanso; callo columellari mediocri. (Gray l. c.)

**) T. forma *H. virgineae* simili, anfractibus supra costatis infra laevibus. (Sow. l. c.)

culum, saturate castaneum, pallide marginatum, intus margaritaceum. — Diam. maj. 15, min. 13, alt. 11½ mill. (Coll. Nr. 40.)

Helicina adspersa Pfr. in Wiegm. Arch. f. Nat. 1839. I. p. 354.
— — *Sow.* Thes. N. 25. p. 6. t. 3. f. 124. *)
— — *Reeve* Conch. syst. II. t. 186. f. 4.
— — *Chemn.* ed. II. N. 36. p. 32. t. 1. f. 11. (I. 19. t. A. f. 16. 17 c. anim.)
— *variegata Orb.* Moll. Cub. I. p. 242. t. 19. f. 1—4. **)
— *marmorata Orb.* ibid. p. 244. t. 19. f. 9—12? ***)

β. Carnea, undique maculis saturatioribus variegata.

γ. Superne fere unicolor spadicea, basi alba, fascia angusta spadicea unica:
Helicina adspersa var. Sow. Thes. t. 3. f. 125.
— — — *Chemn.* l. c. f. 12—14.

δ. Unicolor lutea:
Helicina adspersa var. Sow. l. c. f. 115.
— — — *Chemn.* l. c. f. 15.

ε. Lutea, fascia 1 lata spadicea supra peripheriam anfractus ultimi.
Helicina adspersa var. Sow. l. c. f. 103.
— — — *Reeve* l. c. t. 186. f. 3.
— — — *Chemn.* l. c. f. 16.
— *ornata Fér.* Mus., teste Jay Catal. 1850. p. 262.

ζ. Unicolor alba:
Helicina adspersa var. Chemn. l. c. f. 17.

Habitat in insula Cuba, frequens circa Matanzas; varietates γ & ε prope Callajabas legit amicus E. Otto.

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*) T. globosa, laevi; anfractibus rotundatis, prope suturam elevatis; apertura semilunari; labio externo expanso, postice depresso; columella parva. (Sow. l. c.)

**) T. convexo-globulosa, crassa, laevigata, subtus fusco-rubra, luteo variegata, supra lutea, fasciis fuscis ornata; spira convexiuscula, apice acuta; anfr. 6 convexis; apertura semilunari, intus fusca; columella incrassata, lutea; labro tenui, acuto, subreflexo, luteo; aperturae angulo columellari tuberculato. — Diam. 18, alt. 13 mill. — Cette espèce a, par sa fascie, beaucoup de ressemblance avec l'*H. occidentalis Guild.*; mais elle en diffère par sa surface lisse, par son dernier tour nullement anguleux, par sa columelle et ses bords jaunes et non pas blancs, par ce bord mince non épaissi, enfin par la disposition des bandes. (Orb. l. c.)

***) T. globuloso-convexa, tenui, laevigata, albida, rosea, supra fusco marmorata; spira convexa, inflata, apice subacuto; anfr. 5 convexis; apertura semilunari, angusta, intus fusca; labro tenui, acuto, subreflexo, albo; columella alba, incrassata; aperturae angulo columellari simplici. — Diam. 11—15, alt. 8—10 mill. — Cette coquille nous représente les formes de l'*H. variegata*, dont elle diffère cependant par sa taille de moitié moindre, par le manque de stries transverses au sommet de la spire, par le manque de callosité à l'angle antérieur de la columelle et par sa bouche plus étroite. (Orb l. c.)

47a. **H. rostrata Morelet.** † 610a.

T. globoso-conoidea, apice breviter mucronata, vix nitens, rugis obsoletis et strigis spiralibus sub lente decussata, albida vel flavescens, fasciis 2 roseis s. purpureo-violaceis, suprema latiore, cingulata; anfr. $5\frac{1}{2}$ parum convexi; columella callosa, brevis, basi angulata; apertura subtrigona, intus flavescens vel nitide fulva, peristomate incrassato, breviter expanso, medio in rostrum acutum producto. — Alt. 11, diam. absque rostro 15 mill. (Mor.)

Helicina rostrata Morelet Testac. noviss. II. p. 17. Nr. 123.

Habitat prope pagum San Agostino prov. Vera Paz.

48. **H. striata Lamarck.** 611

T. subsemiglobosa, tenuiuscula, oblique confertissime striata, carnea; spira brevis, conoidea, subacuminata; anfr. $5\frac{1}{2}$ planiusculi, ultimus vix descendens; apertura semiovalis, altior quam lata; columella antrorsum curvata, basi tuberculata: tuberculo retrorsum in callum basalem luteum, circumscriptum continuato; perist. simplex, breviter expansum, margine supero subdepresso. — Operc. corneum. — Diam. maj. 13, min. 11, alt. $8\frac{1}{2}$ mill. (Coll. Nr. 41.)

Helicina striata Lam. Hist. VI. p. 103. N. 2. Ed. Desh. VIII. p. 158.*)
— — *Gray* in Zool. Journ. I. p. 71.
— — *Deless.* Recueil t. 27. f. 1.
— — *Chemn.* ed. II. N. 38. p. 33. t. 5. f. 24–27.

Habitat in insula Portorico.

49. **H. Funcki Pfr.** 612

T. conico-subglobosa, tenuiuscula, sub lente subtilissime oblique striatula, vix nitidula, flavida, roseo-nebulosa, vel sordide fuscescenti-carnea; spira conoidea, obtusiuscula; anfr. $5\frac{1}{2}$ planiusculi, ultimus utrinque convexior, peripheria obsolete angulatus; apertura obliqua, semiovalis; columella subarcuata, linea impressa verticali notata, basi subnodosa, in callum sensim tenuiorem retrorsum abiens; perist. late expansum, margine supero subrepando. — Operc.? — Diam. maj. $13\frac{1}{2}$, min. 9, alt. 9 mill. (Mus. Cuming.)

*) T. semiglobosa, tenui, subpellucida, oblique striata, albida; columella lutescente; labro margine subreflexo. — Diam. 5 lin. (Lam. l. c.)

Helicina Funcki Pfr. in Proc. Zool. Soc. 1848. p. 121.
— — *Chemn.* ed. II. N. 37. p. 33. t. 9. f. 1. 2.

Habitat S. Yago Novae Granadae (Funck).

Obs. Affinis *H. amoenae Pfr.*

613 50. **H. neritella Lamarck.**

T. depresso-conoidea, tenuiuscula, subtilissime striatula, opaca, alba vel flavida, unicolor vel fusco-bicingulata vel taeniis latis rufis, albido-articulatis et marmoratis ornata; spira conoidea, acutiuscula; anfr. 5 vix convexiusculi, celeriter accrescentes, ultimus vix descendens, depressus; apertura perobliqua, integra, triangularis, aeque alta ac lata; columella basi subexcavata; perist. simplex, expansum, margine infero immediate in callum basalem crassum transeunte. — Operc. rutilum. — Diam. maj. 14, min. 11, alt. $9^1/_2$ mill. (Coll. Nr. 42.)

Helicina neritella Lam. Hist. VI. p. 103. N. 1. Ed. Desh. VIII. p. 157.*)
— — *Blainv.* in Dict. sc. nat. XX. p. 455.
— — *Blainv.* Malacol. t. 56. f. 2.
— — *Gray* in Zool. Journ. I. p. 65. t. 6. f. 2.**)
— — *Desh.* in Encycl. méth. II p. 268. N. 2.***)
— — *Sow.* Thes. N. 26. p. 6. t. 2. f. 72—75.†)
— — *Chemn.* ed. II. N. 39. p. 34. t. 4. f. 5—8. t. 6. f. 18. t. 8. f. 9—12. t. 9. f. 3. 4.
List. Hist. t. 61. f. 59.††)
Helix N. 29 Schroet. Einl. II. p. 185.

β. Minor, coloribus varia:

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*) T. ventricosa, globoso-conoidea, glabra, alba; labro margine reflexo. — Diam. 7'''. *β.* T. rosea, columella lutescente; labro margine crassiore, reflexo. — Antill. (Lam. l. c.)

**) T. laevis (depresso-ovata) albida, fusco-bifasciata, supra conica, purpureo-fasciata vel marmorata, subtus convexa; peristomate incrassato, reflexo, luteo, columella labiisque callosis, luteis; operculum corneum. — Axis $^9/_{20}$, diam. $^7/_{10}$ poll. (Gray l. c.)

***) Coquille lisse, ovale, déprimée, mince, fragile, conique en dessus, convexe en dessous; la couleur est quelquefois toute blanche, ou d'un jaune pâle et quelquefois elle est ornée de deux fascies brunes ou rousseâtres; quelques individus ont la spire fasciée de rouge pourpré. Le péristome est épaissi, réfléchi en dehors, d'un beau jaune, ainsi que la columelle, qui est pourvue à la base d'une large callosité très-lisse. (Desh. l. c.)

†) T. *H. variegatae* simili, sed magis depressa; anfractibus minus distinctis; labio externo magis expanso et reflexo. (Sow. l. c.)

††) Trochilus labro protenso fasciatus. — Barbadoes. (List. l. c.)

Helicina variabilis Guild. in Zool. Journ. III. p. 529. *) t. suppl. 17 bis. f. 6—10.
— — *Sow.* Thes. N. 28. p. 6. t. 2. f. 57. 58. t. 3. f. 106. 109. 129. **)
— *neritella var. Chemn.* l. c. t. 9. f. 32. 33. (Ex spec. authent.)

Habitat in insulis Antillis: Barbados.

51. H. Jamaicensis Sowerby. 614

T. subgloboso-conica, tenuiuscula, laevigata, albida, unicolor vel corneo-unifasciata, versus apicem plerumque sanguinea; spira conica, submucronata; anfr. 5 convexiusculi, ultimus sensim descendens, basi subplanatus; apertura obliqua, subtriangularis; columella basi obsolete tuberculata, retrorsum in callum basalem crassum, luteum, semicircularem abiens; perist. tenue, intus luteum, margine supero prope insertionem recto, deorsum expanso. — Operc.? — Diam. maj. 12, min. 10, alt. 9 mill. (Coll. Nr. 43.)

Helicina Jamaicensis Sow Thes. N. 2. p. 2. t. 1. f. 3 4. ***)
— — *Chemn.* ed. II. N. 40. p. 35. t. 1. f. 22—26.

Habitat in insula Jamaica.

52. H. aurantia Gray. 615

T. conico-globosa, tenuiuscula, laevigata, nitida, albida vel fulvescens, fascia 1 lutea vel fuscula cincta; spira brevis, conica, acutiuscula; anfr. vix 5, supremi planulati, ultimus inflatus, antice vix descendens; apertura subtriangularis, intus lutea; columella brevis, complanata, basi subtuberculata, in callum basalem crassum, aurantiacum retrorsum producta; perist. incrassatum, rectangule expansum, a columellae tuberculo vix distinctum. — Operc.? — Diam. maj. 10, min. 8, alt. $7\frac{1}{2}$ mill. (Coll. Nr. 44.)

Helicina aurantia Gray in Zool. Journ. I. p. 67. t. 6. f. 8. †)

T. solida, pallida, immaculata, globosa; labro marginato, crasso; columella effusa — β. Flavida immaculata. — γ. Rufo superne undulata. — δ. Rufo maculata, nebulosa. — ε. Fascia maculari. — ς. Utrinque castaneo late fasciata. — η. Superne rufescente-flavescens, apertura crocea. — Barbadoes. (Guild. l. c.)

**) T. *H. pictae* simili, sed anfractu ultimo minori. (Sow. l. c.)

***) T. *H. aurantiae* simillima, sed magis conica et magis tenui; peritremate pallidiore, minus incrassato. — It may be only a variety. (Sow. l. c.)

†) T. subdepresso-ovata, subglobosa, laevis, albido-rufescens, unifasciata; perist. incrassato, reflexo, aurantio; columella callosa; aperturae angulo columellari subtuberculato. — Axis $^3/_{10}$, diam. $^4/_{10}$ poll. (Gray l. c.)

Helicina aurantia Desh. in Lam. hist. VIII. p. 161. N. 12.
— — *Sow.* Thes. N. 1. p. 2. t. 1. f. 1. 2.*)
— — *Reeve* Conch. syst. II. t. 186. f. 16.
— — *Chemn.* ed. II. N. 41. p. 36. t. 1. f. 18. 19.
— *pyrrhostoma Menke* Syn. p. 79. Ed. II. p. 132.**)

Habitat in insula Jamaica.

616 53. **H. intusplicata Pfr.**

T. depresso-globosa, tenuiuscula, laevigata, nitida, carnea; spira breviter conoidea, vix acuminata; anfr. fere 5 convexiusculi, celeriter accrescentes, ultimus rotundatus, basi planiusculus; columella recedens, plana, retrorsum in callum tenuem dilatata; apertura parum obliqua, semiovali-subtriangularis, altior quam lata, ad columellam angulata et plica intus fere ad marginem decurrente munita; perist. simplex, breviter expansum, margine basali ad columellam angulato. — Operc.? — Diam. maj. 10, min. $8\frac{1}{2}$, alt. $7\frac{1}{2}$ mill. (Mus. Cuming.)

Helicina intusplicata Pfr. in Proc. Zool. Soc. 1850. p. 98.

Habitat . . .?

617 54. **H. tenuilabris Pfr.**

T. subglobosa, solidiuscula, sublaevigata, albo et cinnamomeo variegata et subfasciata; spira breviter conoidea, acutiuscula; anfr. fere 5 planiusculi, ultimus utrinque convexus, antice vix descendens; apertura obliqua, semiovalis, intus cerasina, pallido-fasciata; columella recedens, angusta, retrorsum in callum tenuem dilatata, basi immediate in peristoma tenue, expansiusculum abiens. — Operc.? — Diam. maj. 10, min. 9, alt. 7 mill. (Mus. Cuming.)

Helicina tenuilabris Pfr. in Proc. Zool. Soc. 1848. p. 124.
— — *Chemn.* ed. II. N. 42. p. 36. t. 8. f. 3. 4.

Habitat . . .?

Obs. Affinis *H. adspersae Pfr.*

618 55. **H. bulla Pfr.**

T. globoso-conica, tenuis, sub lente punctulato-striatula, vix nitidula, diaphana, hyalino-alba; spira mediocris, conoidea,

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*) T. globosa, laevi; labio externo reflexo, crasso, in medio subexpanso, postice et antice depresso; labio interno crasso, expanso; columella lata complanata. (Sow. l. c.)

**) T. subglobosa, longitudinaliter antiquato-striata, nitidula, cinerea,

acutiuscula; anfr. 5 planiusculi, ultimus rotundatus, antice subascendens; columella brevis, arcuata, extus basi subnodosa, callum tenuissimum hyalinum retrorsum emittens; apertura obliqua, subtriangulari-semiovalis; perist. dilatatum, late expansum, margine supero levissime sinuato. — Operc.? — Diam. maj. 13, min. 10, alt. $8^1/_2$ mill. (Mus. Cuming.)

Helicina bulla Pfr. in Proc. Zool. Soc. 9 Mart. 1852.

Habitat . . .?

56. H. Tamsiana Pfr. 619

T. subgloboso-turbinata, tenuis, sub lente spiraliter minute striata, nitidula, pellucida, corneo-rubella; spira conoidea, acutiuscula; anfr. 5 convexiusculi, ultimus obsolete angulatus, basi planiusculus; apertura obliqua, late semiovalis; columella brevis, filaris, subrecedens, callum emittens tenuem, albidum, diffusum; perist. tenue, album, angulatim patens, margine dextro dilatato, basali versus columellam angustato. — Operc.? — Diam. maj. 9, min. $7^3/_4$, alt. 6 mill. (Coll. Nr. 45.)

Helicina Tamsiana Pfr. in Zeitschr. f. Malak. 1850. p. 192.
— — *Chemn.* ed. II. N. 95. t. 10. f. 9—11.

Habitat Venezuela (Dr. Tams).

Obs. An sequenti nimis affinis?

57. H. pellucida Sowerby. † 620

T. *H. zephyrinae* similis, sed columella paene recta, subangulata. (Sow.) — Diam. $8^1/_2$, alt. 8 mill. (Ex ic.)

Helicina pellucida Sow. Thes. N. 40. p. 9. t. 3. f. 138.

Habitat in Guyana gallica.

58. H. globulosa Orbigny. † 621

T. rotundo-globulosa, laevigata, alba, zonis fuscis cincta; spira brevis, obtusa, inflata, apice acuminato; anfr. 6 convexi, ultimus magnus, globulosus; apertura semilunaris; labrum tenue, reflexum; columella incrassata, simplex. — Diam. 7, alt. 6 mill. (O.)

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fasciis virentibus cincta; apertura semirotundo-trigona; columellae callo distincto; labri, intus aurantiaci, margine incrassato, reflexo. — Alt. $3^1/_4$, lat. 4 lin. — Habitat in Guinea; certe inter piper nigrum venale reperta. (Menke l. c.)

Helicina globulosa Orb. Moll. Cub. I. p. 254. t. 21. f. 10. 11. *)
— — *Sow.* Thes. N. 36. p. 8. t. 3. f. 127. 128. **)

Habitat in insula Cuba.

622 59. **H. sordida King.** †

T. globoso-conoidea; anfr. rotundatis longitudinaliter striatis; operc. castaneo. — Long. $^2/_8$ paulo plus, lat. $^5/_{16}$ paulo plus poll. (K.)

Helicina sordida King in Zool. Journ. V. p. 339.

Habitat Rio Janeiro.

623 60. **H. arenicola Morelet.**

T. conoideo-depressa, spiraliter striata, albido-flavicans, maculis corneo-pellucidis seriatis variegata; spira convexo-conoidea, acutiuscula; sutura impressa, albo-marginata; anfr. $5^1/_2$ planiusculi, ultimus rotundatus; apertura parum obliqua, semiovalis; columella brevissime arcuata, superne puncto impresso notata, callum tenuiusculum emittens; perist. simplex, brevissime reflexum. — Operc.? — Diam. maj. $7^1/_2$, min. $6^2/_3$, alt. 5 mill. (Coll. Nr. 46.)

Helicina arenicola Mor. Test. noviss. I. p. 21. N. 50. ***)
— — *Chemn.* ed. II. N. 99. t. 10. f. 24–27.

Habitat arenosa circa Sisal Yucataneorum.

624 61. **H. oleosa Pfr.**

T. depresso-turbinata, tenuiuscula, striatula, diaphana, oleoso-micans, griseo-fulvida; spira conoidea, vix acutiuscula; anfr. 5 convexi, ultimus magnus, basi parum convexus, juxta columellam impressus; columella brevis, stricta, subrecedens,

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*) L'encroûtement columellaire occupe la moitié de la largeur de la bouche. Bien plus globuleuse que les espèces précédentes celle-ci, indépendamment de quelques autres traits de dissemblance moins marqués, s'en distingue par ce caractére et par les fascies dont elle est ornée. (Orb. l. c.)

**) T. globosa, laevi, subtenui; labio externo sub-expanso, reflexo; columella acuta. (Sow. l. c.)

***) T. conoidea, spiraliter striata, albido-flavicans, maculis seriatim corneo-pellucidis marmorata; spira retusiuscula, apice pallido; anfr. 6 planulati, ultimo depressiusculo; columella callosa; apertura subtrigona, marginibus subincrassatis, vix reflexiusculis. — Diam. maj. 7, min. 6 mill. (Mor. l. c.)

filaris, callum emittens tenuissimum, subgranulosum; apertura parum obliqua, subtriangulari-semiovalis; perist. tenue, breviter reflexum, margine basali cum columella angulum formante. — Operc. solidiusculum, margaritaceum. — Diam. maj. 7⅓, min. vix 6, alt. 5 mill. (Mus. Cuming.)

Helicina oleosa Pfr. in Proc. Zool. Soc. 9 Mart. 1852.

Habitat in insula Haiti (Sallé).

62. **H. parva Sowerby.** 625

T. turbinato-depressa, solidula, laevigata, nitida, citrina vel rubella; spira breviter conoidea, apice acutiuscula; anfr. 4 vix convexiusculi, ultimus rotundatus; apertura parum obliqua, semiovalis; columella brevissima, callum latum retrorsum emittens, basi cum perist. tenui, expanso angulum formans. — Operc. tenuiusculum, semiovale. — Diam. maj. 5⅔, min. 5, alt. 3½ mill. (Mus. Cuming.)

Helicina parva Sow. in Proc. Zool. Soc. 1842. p. 8. *)
— — *Sow.* Thes. N. 35. p. 8. t. 2. f. 82.

Habitat Argao insulae Zebu (H. Cuming).

63. **H. flammea Quoy.** † 626

T. globoso-conoidea, minima, striata, subalbida, flammis rubris confertis ornata; anfr. 4—5 convexiusculi; apertura semicircularis; perist. crassum, tantisper reflexum. — Diam. 2½‴. (Q.)

Helicina flammea Quoy & Gaim. Voy. Astrol. II. p. 193. t. 12. f. 1—5.
— — *Desh.* in Lam. hist. VIII. p. 159. N. 6. **)
— — *Chemn.* ed. II. N. 45a. p. 39. t. A. f. 12. (ex Quoy.)
— *flammeata Sow.* Thes. t. 1. f. 37—39. (ex Quoy.)

Habitat in insula Tonga.

64. **H. uberta Gould.** 627

T. semigloboso-conoidea, sublaevigata, tenuiuscula, albida, opaca; spira fornicata, apice acutiuscula; sutura vix impressa;

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*) T. *H. politae* simillima, sed magis rotundata, labio externo minime depresso. (Sow. l. c.)

**) T. globoso-conoidea, minima, transverse striata, subalbida, flammis rubris, confertis ornata; ultimo anfractu basi subplano, calloso; apertura semilunari; labro albo tantisper reflexo. — Diam. 5—6 mill. (Desh. l. c.)

anfr. 4 subplani, celeriter accrescentes, ultimus antice constrictus, basi parum convexus; columella brevis, subverticalis, callum nitidum, circumscriptum, citrinum retrorsum emittens; apertura subtriangulari-semiovalis, integra; perist. tenue, brevissimum, expansiusculum. — Operc.? — Diam. maj. 5, min. $4^1/_2$, alt. vix 4 mill. (Mus. Cuming.)

Helicina uberta Gould in Proc. Bost. Soc. 1847. p. 202 *); Exped. shells p. 37. Ed. 1851. p. 94. f. 112.
— *Huberti (Gould?)* in Mus. Cuming.

Habitat in insulis Sandwich., Maui, Oahu.

628 65. **H. musiva Gould.** †

T. parva, solidula, subglobosa, polita, rufo-viridis, supra lineolis flexuosis albidis radiata; spira anfr. 4 rotundatis; apertura lunata; perist. reflexum, albidum, ad basim rectangulare; columella recta. — Lat. $^3/_{20}$, alt. $^1/_{10}$ poll. (G.)

Helicina musiva Gould in Proc. Bost. Soc. 1847. p. 201 **); Exped. shells p. 36. Ed. 1851. p. 98. f. 107.

Habitat in insulis Manua et Upolu.

628a. 65a. **H. fragilis Morelet.** †

T. conoidea, tenuis, minutissime striatula, nitida, diaphana, corneo-rubella vel lutescens, unicolor; anfr. 6 convexiusculi; columella brevis, callosa, cum margine basali callo prominulo juncta; perist. incrassatum, reflexiusculum. — Alt. 6, diam. $5^1/_2$ mill. (Mor.)

Helicina fragilis Morelet Test. noviss. II. p. 17. N. 122.

Habitat sylvas Petenenses Guatemalae.

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629 66. **H. alata Menke.**

T. globoso-conica, tenuis, striatula, sub epidermide decidua, fuscula alba; spira conica, acutiuscula; anfr. $5^1/_2$ con-

*) T. parva, conica, subglobosa, laevis, dilute citrina; spira anfr. 4; sutura impressa; apertura parva, semilunaris, extrinsecus constricta; peristomate simplici, vix reflexo; columella callo flavo copiosissimo, haud appresso, induta. — Lat. $^7/_{40}$, alt. $^3/_{20}$ poll. (Gould l. c.)

**) Closely allied to *H. fulgora Gould*, but smaller, more globular, not carinated, and destitute of radiated coloring beneath. (Gould l. c.)

vexi, ultimus rotundatus, non descendens, basi juxta callum columellarem circumscriptum profunde impressus; columella simplex, recedens; apertura ampla, semicircularis; perist. simplex, tenue, expansiusculum, margine dextro infra insertionem quasi in alam latiusculam producto. — Operc.? — Diam. maj. 9, min. vix 8, alt. $7^1/_2$ mill. (Mus. Cuming. et Menke.)

Helicina alata Menke mss.
— — *Pfr.* in Zeitschr. f. Malak. 1848. p. 87.
— — *Chemn.* ed. II. N. 54. p. 43. t. 5. f. 18—20.
— *pannucea Morelet* Test. noviss. I. p. 21. N. 52. *)

Habitat San Luis in provincia Peten reipublicae Guatemalensis (Morelet), Mexico? (Menke.)

§. 8.

67. H. sinuosa Pfr. 630

T. globoso-conica, solida, concentrice tenuiter striata, opaca, alba; spira conica, acuta; sutura impressa; anfr. $6^1/_2$ plani, ultimus subcarinatus, basi convexiusculus; apertura verticalis, sinuoso-triangularis; columella brevis, planata, basi in nodum dentiformem desinens, callum tenuem emittens; perist. incrassatum, expansum, margine dextro repando, ascendente, cum tuberculo calloso in carina anfr. penultimi sinum formante. — Operc.? — Diam. maj. 16, min. $13^1/_2$, alt. 11 mill. (Mus. Cuming.)

Helicina sinuosa Pfr. in Zeitschr. f. Malak. 1850. p. 191.
— — *Chemn.* ed. II. N. 94. t. 10. f. 7. 8.

Habitat in republica Mexicana?

68. H. Lanieriana Orbigny. 631

T. globoso-turbinata, tenuis, irregulariter oblique et confertim concentrice striata, vix nitidula, pallide lutea; spira conica, acute mucronata; anfr. 7, primi plani, penultimus convexiusculus, ultimus subrotundatus, peripheria obsoletissime angulatus; columella brevis, stricta, recedens, callum tenuem retrorsum emittens; apertura obliqua, ovali-subtriangularis;

*) T. ovato-depressa, subtus convexiuscula, obtuse carinata, sub epidermide membranacea transversim lamelloso-cornea, levis; anfr. 5 planulati; apertura semilunaris; perist. subincrassatum, acutum, pone suturam emarginatum, callo crassiusculo aperturam integram fingente. — Diam. maj. 11, min. 9 mill. (Morelet l. c.)

perist. simplex, tenue, expansiusculum, margine basali cum columella angulum rectum formante. — Diam. maj. 12, min. 10, alt. 9 mill. (Coll. Nr. 47.)

Helicina Lanieriana Orb. Moll. Cub. I. p. 245. t. 19. f. 13. 14.*)

Habitat in insula Cuba (D'Orbigny, Poey).

632 69. **H. acuminata Velasquez.**

T. globoso-conica, solida, sublaevigata, nitida (sub lente minute concentrice striata), carneo-albida; spira conica, acuta; sutura irregulariter subcrenulata; anfr. fere 8 vix convexiusculi, ultimus rotundatus; columella brevis, subrecedens, subincrassata, fuscescens, retrorsum in callum nitidum, luteum dilatata; apertura obliqua, subtriangulari-semiovalis, intus lutea; perist. tenue, breviter expansum, margine basali cum columella angulum rectum formante. — Operc. tenuiusculum, margaritaceum, margine columellari incrassato. — Diam. maj. $15^1/_2$, min. 13, alt. 15 mill. (Coll. Nr. 48.)

Helicina acuminata Velasquez mss.
— — *Poey* Memorias hist. nat. Cuba. I. t. 5. f. 13—16.

Habitat in insula Cuba.

633 70. **H. turbinata Wiegmann.**

T. turbinata, solidula, sublaevigata, opaca, alba unicolor vel fusculo-unizonata, rarius spadicea; spira turbinata, acutiuscula; anfr. 6 subplani, ultimus interdum obsolete angulatus; apertura semilunari-triangularis; columella brevis, arcuata, superne rima impressa signata, basi subtuberculosa, incrassata, retrorsum in callum basalem album, diffusum abiens; perist. subincrassatum, breviter expansum. — Diam. maj. 11—14, min. $9^2/_3$—12, alt. $9^2/_3$—11 mill. (Coll. Nr. 49.)

Helicina turbinata Wiegm. mss. in Mus. Berol.
— — *Menke* Synops. ed. II. p. 39.

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*) T. globuloso-conica, tenui, transversim striata, lutea; spira elevata, apice acuta; anfr. 6 minime convexis; apertura angusta, semilunari; labro tenui, reflexo; columella incrassata; aperturae angulo simplice. — Diam. 13, alt. 11 mill. — On remarque sur la columelle même, au milieu de sa longueur, une petite fossette, qui n'atteint pas le bord. — Très voisine de l'*H. marmorata* par sa forme, par son encroûtement columellaire, par la fossette de son bord, cette espèce nous paraît en différer spécifiquement par les stries transverses de toute la partie supérieure de la coquille, par ses bords plus largement réfléchis, et enfin par sa teinte entièrement jaune; elle diffère de l'*H. neritella Lam.* par ses stries transverses (Orb. l. c.)

Helicina turbinata Pfr. in Zeitschr f. Malak. 1848. p. 87.
— — *Chemn.* ed. II. N. 46. p. 39. t. 4. f. 13—15. t. 7. f. 6. t. 8. f. 1. 2. t. 9. f. 31.
— *zephyrina var. Sow.* Thes. t. 3. f. 118.

Habitat in republica Mexicana.

71. H. zephyrina Duclos. 634

T. conico-globosa, solidula, striatula, lineis concentricis sub lente subreticulata, opaca, nitidula, pallide carnea vel albida, fasciis rubris ornata; spira conica, acuta; anfr. 6 convexiusculi, ultimus rotundatus, antice vix descendens; apertura obliqua, subsemicircularis; columella breviter arcuata, impressa, retrorsum in callum albidum, parvulum dilatata, antice subangulatim in perist. simplex, breviter expansum abiens. — Diam. maj. 12, min. 11, alt. 10 mill. (Coll. Nr. 50.)

Helicina zephyrina Duclos in Guérin Mag. 1833. t. 21. *)
— — *Sow.* Thes. N. 39. p. 9. t. 1. f. 25. 27. **)
— — *Chemn.* ed. II. N. 43. p. 37. t. 4. f. 16—18. (ex Guérin) t. 7. f. 3. t. 8. f. 21.
— *zephirina Orb.* Moll. Cub. I. p. 246. t. 19. f. 15. 16? ***)
— *Ambeliana Sow.* Thes. N. 38. p. 8. t. 1. f. 26. †)

Habitat Mexico (Ducl.), Cuba (Orb., Sow.).

72. H. ampliata Adams. † 635

T. conica, albida (?), laevigata, nitida, striis paucis incrementi exilissimis; apex subacutus; spira valde elevata, subcurvilinearis; anfr. 5½ convexiusculi, ultimus subangulatus, antice subplanulatus; apertura transverse perdilatata, parte

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*) T. subglobosa, spira elevata, colore varia, nunc unicolore, nunc diversissime fasciata; labro marginato; columella callosa; operculo castaneo. — Alt. 12, latit. 13 mill. (Duclos l. c.)

**) T. globosa subconica, laevi, tenui; labio externo reflexo; columella oblique attenuata. — Cuba. (Sow. l. c.)

***) T. globuloso-conica, subcrassa, glabra, rubescente; spira elevata, conica, apice acuta; anfr. 7 subplanis; apertura semilunari; labro crasso, albo, reflexo; columella minime incrassata, fossiculifera; aperturae angulo columellari simplice. — Diam. 14, alt. 11 mill. — Assez voisine des *H. marmorata* et *Lanieriana* par sa taille et par sa forme, celle-ci en diffère par sa spire plus conique, par son encroûtement columellaire de moitié moindre, par ses bords bien plus épaissis et plus brusquement réfléchis, enfin par sa fossette columellaire très profonde. (Orb. l. c.)

†) T. conica, laevi, spiraliter tenuissime striata; apertura semilunari; labio externo crasso, reflexo, rotundato; operculo corneo. (Sow. l. c.)

supera lateris dextri depressa; labium callo lato, crasso munitum. — Diverg. media circa 90°; alt. 0,6; lat. max. 0,67; lat. min. 0,57 poll. (A.)

Helicina ampliata Adams Contrib. to Conchol. N. 7. p. 101. *)

Habitat in insula Jamaica.

636

73. H. tenuis Pfr.

T. turbinata, tenuissima, vix striatula, pellucida, corneo-albida, rubro obsolete trifasciata; spira conica, acuta; anfr. 6 vix convexiusculi, ultimus antice non descendens, basi planiusculus; apertura fere verticalis, triangulari-semiovalis; columella brevis, basi retrorsum subdentata, superne in callum album nitidum, circumscriptum dilatata; perist. tenue, angulatim expansum, margine basali cum columellae basi angulum formante. — Operc.? — Diam. maj. 11, min. 9, alt. $8^1/_2$ mill. (Mus. Cuming.)

Helicina tenuis Pfr. in Proc. Zool. Soc. 1848. p. 124
— — *Chemn.* ed. II. N. 47. p. 40. t. 7. f. 33. 34.

β. Flavescenti-albida, anfractu ultimo medio unicingulato: cingulo angustissimo e punctis luteis pellucidis composito, supra suturam ad spiram ascendente. (Mus. Cuming.)

Habitat Yucatan; var. *β* in Mexico.

637

74. H. vernalis Morelet.

T. globoso-conica, tenuis, vix striatula, sub lente granulata, nitida, pellucida, citrina vel albido- aut roseo-fulva, interdum purpureo-fasciata; spira conica, acutiuscula; anfr. $5^1/_2$ convexiusculi, ultimus inflatus, basi convexus; apertura parum obliqua, subtriangulari-semiovalis; columella brevis, basi retrorsum subdentata, superne callum crassiusculum, circumscriptum emittens; perist. tenue, angulatim expansum, medio dilatatum, margine basali vix arcuato. — Operc. tenue, castaneo-purpureum. — Diam. maj. $9^2/_3$, min. vix 8, alt. 7 mill. (Coll. Nr. 51.)

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*) Shell conic: whitish (?): with a few excessively fine striae of growth; otherwise smooth and shining: apex subacute: spire much elevated, with the outlines moderately curvilinear: whorls five and one half, a little convex, with a distinct suture; last whorl subangular, anteriorly subplanulate: aperture transversely much dilated, depressed in the upper part of the right side: labium with a large thick deposit. This shell resembles *H. Jamaicensis Sow.*, but is much larger, much less globose, and more conic. (Adams l. c.)

Helicina vernalis Morelet Test. noviss. I p. 20. N. 47. *)
— — *Chemn.* ed. II. N. 96. t. 10. f. 12—14.

Habitat sylvas Petenensium in republica Guatemala.

Obs. An varietas praecedentis? (Morelet Test. nov. II. p. 27.)

75. H. Oweniana Pfr. 638

T. conica, tenuis, laevigata, sub lente lineolis impressis antrorsum obliquis subtilissime sculpta, nitida, pellucida, straminea, sursum saturatior; spira conica, vertice obtusiusculo, castaneo; sutura linearis, albo-marginata; anfr. 6 plani, ultimus non descendens, basi planiusculus; apertura subobliqua, semiovalis; columella brevis, verticaliter rimata, callum tenuissimum retrorsum emittens; perist. aurantiacum, angulatim patens, reflexiusculum, margine utroque levissime curvato. — Operc. tenue, purpureum. — Diam. maj. 9, min. $7^1/_2$, alt. $7^1/_2$ mill. (Mus. Cuming.)

Helicina Oweniana Pfr. in Proc. Zool. Soc. 1848. p. 123.
— — *Chemn.* ed. II. N. 48. p. 40. t. 7. f. 35. 36.

β. Paulo minor, anfract. paulo convexioribus, spira minus elevata. (Coll. Nr. 52.)
Helicina coccinostoma Morelet Test. noviss. I. p. 19. N. 45. **)

Habitat Chiapas, Mexico (Ghiesbreght); var. β in provincia Peten reipublicae Guatemalensis (Morelet).

76. H. haemastoma Moricand. 639

T. conico-globosa, solidiuscula, concentrice minutissime striata, nitidula, flavido-albida, lilaceo late unifasciata; spira semiglobosa, apice acuminata, violacescens; anfr. 5, summi planiusculi, 2 ultimi convexi, ultimus non descendens; apertura subtriangularis, intus concolor, nitida; columella brevis, recta, retrorsum tuberculata; perist. subincrassatum, expansum, igneum; callus basalis circularis, fusco-aurantiacus. — Operc. saturate sanguineum. — Diam. maj. 9, min. 8, alt. 7 mill. (Coll. Nr. 53.)

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*) T. globoso-conoidea, translucida, nitida, levis, colore pervaria, nunc citrina, nunc albido- vel roseo-fulva, rarius fasciata; anfr. 6 convexi, ultimo valde dilatato, obtuse ad peripheriam angulato; columella recta, callosa, angularis; apertura semilunaris, marginibus reflexis. — Diam. maj. 11, min. 8 mill. (Morelet l. c.)

**) T. globoso-conoidea, levis, nitidissima, colore variabilis, alba, citrina vel fulvastra absque fasciis; anfr. 6 convexiusculi; columella callosa, angularis; apertura semilunaris; perist. subbilabiatum, coccineum, reflexum. — Diam. maj. 9, min. 7 mill. (Morelet l. c.)

Helicina haemastoma Moricand Mém. III. p. 36. t. 3. f. 6. 7.
— — *Sow.* Thes. N. 3. p. 2. t. 1. f. 5. 6. t. 3. f. 98.*)
— — *Chemn.* ed. II. N. 51. p. 42. t. 1. f. 20. 21.

Habitat in Brasilia.

640 77. **H. Reeveana Pfr.**

T. conica, solidula, striis incrementi distinctis et lineolis obliquis, impressis confertissimis sub lente clathratula, nitidula, albida, rufo nebulosa et taeniata; spira elevata, acutiuscula; sutura impressa; anfr. 6 convexiusculi, ultimus angulatus, basi vix convexior; apertura subsemiovalis, intus castanea; columella brevissima, horizontaliter in callum parvulum, album expansa; perist. album, angulatim patens, margine basali leviter arcuato, cum columella extus subangulatim juncto. — Operc.? — Diam. maj. $8^1/_2$, min. $7^1/_3$, alt. 6 mill. (Mus. Cuming.)

Helicina Reeveana Pfr. in Proc. Zool. Soc. 1848. p. 123.
— — *Chemn.* ed. II. N. 49. p. 42. t. 8. f. 5. 6.

Habitat in insula Cuba.

641 78. **H. campanula Pfr.**

T. campanulato-conica, solidula, laevigata, nitida, citrina; spira elevata, convexa, acuminata; anfr. 6 planiusculi, ultimus antice descendens, pone aperturam subconstrictus, basi planulatus; apertura obliqua, semilunari-subtriangularis; columella breviter recedens, basi subtruncata, callum nitidum semicircularem emittens; perist. simplex, tenue, breviter expansum, margine basali strictiusculo. — Operc. semiovale, fulvum. — Diam. maj. $8^1/_3$, min. $7^1/_2$, alt. 7 mill. (Mus. Cuming.)

Helicina campanula Pfr. in Proc. Zool. Soc. 1848. p. 120.
— *Chemn.* ed. II. N. 50. p. 41. t. 9. f. 12. 13.

Habitat in insula Cuba.

642 79. **H. tropica Jan.**

T. globosa, solida, laevigata, alba; spira fornicata, subacuminata; anfr. 5 convexiusculi, ultimus tumidus, antice non descendens; apertura fere verticalis, subsemicircularis, multo

*) T. *H. aurantiae* simili, sed anfractibus superne striatis; columella subangulata (Sow. l. c.)

altior quam lata; columella brevis, basi tuberculata, retrorsum in callum basalem diffusum, concolorem, antrorsum in peristoma crassum, reflexum, interdum duplicatum continuata. — Operc.? — Diam. maj. 8, min. 7, alt. $6^2/_3$ mill. (Coll. Nr. 54.)

Helicina tropica Jan mss.
— — *Chemn.* ed. II. N. 44. p. 37. t. 4. f. 9. 10.
β. Flavida, vel rubella, interdum subfasciata:
Helicina Ambeliana Sow. Thes. t. 1. f. 19.
— *tropica var. Chemn.* l. c. t. 8. f. 22.

Habitat in Texas.

Obs. Ex icone Sayana hanc speciem sequenti identicam suspicor.

80. H. orbiculata Say. † 643

T. subglobosa, spira non prominente, linea laterali convexa; anfr. 5 transverse obsolete striati, regulariter rotundati; pallide virens, flavicans vel rubro tincta, superne obsolete albo-lineata; apertura superne acuta, inferne rotunda; basis columellae obtuse angulata; labrum album, reflexum. — Long. $^1/_5$ poll. (Say.)

Oligyra orbiculata Say in Philad journ. I. p. 283. *)
— — *Say* Amer. Conch. t. 46. f. 1—3. Ed. Chenu (Bibl. conch. III.) p. 56. t. 15. f. 2. 2a. 2e.
Helicina orbiculata Blainv. in Dict. sc. nat. XX. p. 456.
— — *Gray* in Zool. Journ. I. p. 70.

Habitat in Florida orientali (Say).

Obs. *H. orbiculata Sow.* (Thes. N. 65.) nullo modo huc pertinet, sed *H. nitidae Pfr.* potius proxime affinis videtur, nisi eadem est.

81. H. Hanleyana Pfr. 644

T. globoso-conica, solidula, lineis concentricis, impressis, subdistantibus sculpta, vix diaphana, nitida, fulvo-carnea; spira breviter conoidea, obtusiuscula; anfr. 5 vix convexius-

*) Shell subglobular, spire not prominent, but more than convex, lateral line somewhat convex; whorls five, obsoletely striated across, regularly rounded; colour pale greenish, yellowish or slightly tinted with reddish, particularly on the body, and margined above by an obsolete white line, on the middle of the body a white vitta revolves, sometimes obscure or wanting, aperture acute above, regularly rounded at the base, and extending from the centre of the revolutions or base of the column, to an equidistance between the base and apex of the spire, base of the columella slightly projecting into an obtuse angle, exterior lip whitish, reflected. Operculum simple, not spiral, yellowish brown, minutely granulated. (Say l. c.)

culi, ultimus rotundatus, antice subdescendens; apertura parum obliqua, subsemicircularis; columella brevissima, extrorsum denticulata, callum tenuem, albidum, diffusum emittens; perist. album, vix expansiusculum, intus subincrassatum, basi in denticulum columellae abiens. — Operc.? — Diam. maj. $7^{1}/_{2}$, min. $6^{1}/_{3}$, alt. $5^{2}/_{3}$ mill. (Mus. Cuming.)

Helicina Hanleyana Pfr. in Proc. Zool. Soc. 1848. p. 122.
— — *Chemn.* ed. II. N. 45. p. 38. t. 9. f. 7. 8.

Habitat prope New-Orleans (Sallé).

645 82. **H. flavida Menke.**

T. globoso-conica, concentrice et subtiliter striata, opaca, alba vel flava, unicolor vel apice rubens, interdum rubro-fasciata; spira elata, acutiuscula; anfr. 6—$6^{1}/_{2}$ planiusculi, ultimus antice non descendens, basi subplanulatus; apertura obliqua, integra, subsemicircularis; columella brevis, arcuata, retrorsum in callum basalem tenuem dilatata; perist. album, breviter expansum. — Operc. profunde immersum, tenue, castaneum. — Diam. maj. 7, min. 6, alt. 6 mill. (Coll. Nr. 55.)

Helicina flavida Menke Synops. p. 79. Ed. II. p. 132. *)
— — *Sow.* Thes. N. 41. p. 9. t. 3. f. 117. 134. **)
— — *Chemn.* ed. II. N. 52. p. 42. t. 1. f. 31. 32. t. 5. f. 28—30.
— *Ambieliana Boissy* in Guérin Mag. 1835. t. 68. ***)
— — *Pot. & Mich.* Gal. Douai I. p. 228. t. 23. f. 1. 2.
— *trossula Morelet* Test. noviss I. p. 19. N. 44. †)

Habitat in insula Cuba, Tabago, Mexico et in prov. Peten reipublicae Guatemalensis. — Jamaica? (Cl. Adams in Catal. moll. Jamaicensium non habet.)

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*) T. globoso-conica, transversim tenuissime striata, flava, apice acuta, rubente; apertura obtuse trigona; columellae callo obsoleto; labri albi margine incrassato, reflexo. — Alt. 3, lat. 3'''. — Jamaica. (Menke l. c.)

**) T. trochiformi, subcrassa; labio externo crasso, reflexo, rotundato. (Sow. l. c.)

***) T. trochiformi, nitida, albido-rubra aut lutescente, longitudinaliter obsolete striata; sulcis transversis minimis; apertura semilunari ad peripheriam obtuse angulata; labro crasso, reflexo; anfr. 6, primis rubiginosis; apice obtuso, laevigato; operculo corneo. — Alt 6—8 mill. — Tabago. (Boissy l. c.)

†) T. parva, conoidea, obsolete striolata, colore pervaria, citrina, albida, rosea, fulva, unicolor vel zonata; spira retusiuscula; anfr. 6 parum convexi, ultimo depressiusculo; columella acute callose; apertura parva, subtrigona; perist. pallidum, subincrassatum, vix reflexiusculum. — Diam. maj. 6, min. 5 mill. — Guatemala. (Morelet l. c.)

83. **H. pygmaea Potiez et Michaud.** † 646

T. trochiformis, albida, laevigata, sub lente longitudinaliter striata et transversim sulcata; anfr. 5—6 convexi, ultimus reliquis paulo major, primi flavescentes; apertura parva, obliqua cum columella callo flava; perist. solidum; apex acutus. — Alt. 5, diam. bas. 5 mill. (P. & M.)

Helicina pygmaea Pot. & Mich. Gal. Douai I. p. 230. t. 23. f. 9. 10.

Habitat in insula St. Domingo.

84. **H. trochulina Orbigny.** 647

T. conica, tenuis, laevigata, nitida, pellucida, flava; spira regulariter conica, apice acuta; sutura submarginata; anfr. 6 vix convexiusculi, ultimus antice non descendens, basi planiusculus; apertura obliqua, subtriangularis; columella breviter recedens, simplex, callum tenuissimum retrorsum emittens; perist. tenue, brevissime expansum, intus albo-subcallosum, margine dextro strictiusculo, basali subsinuato, cum columella angulum subeffusum formante. — Diam. maj. 5, min. 4½, alt. 4½ mill. (Mus. Berol.)

Helicina trochulina Orb. Moll. Cub. I. p. 249. t. 20. f. 10—12.*)
— — *Sow.* Thes. N. 42. p. 9. t. 3. f. 105.**)
— — *Chemn.* ed. II. N. 90. p. 66. t. 9. f. 34—36.

Habitat in insula Cuba (Sagra); in insula Portorico (Moritz).

Obs. Num species descripta revera cum Orbignyana identica sit, haud certus sum.

85. **H. Antoni Pfr.** 648

T. globoso-conica, tenuis, irregulariter et leviter rugosula, nitidula, lutescenti-cornea; spira conoidea, obtusa; anfr. 4 convexi, ultimus obsolete angulatus, basi planiusculus, medio subimpressus; apertura obliqua, semiovalis; columella simplex,

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*) T. trochiformi, tenui, laevigata; spira elevato-conica, apice acuto; anfr. 6 convexis, subcarinatis; apertura semilunari; labro tenui, acuto, subreflexo; columella incrassata; aperturae angulo columellari convexo, simplici. — Diam. 3, alt. 3½ mill. — Cette espèce nous rappelle la forme de l'*H. conica*, mais de moitié moins grande elle en diffère encore par le manque de stries, à son sommet, par ses tours de spire convexes et non planes, par son angle columellaire convexe et non sur le même plan que le reste, et par le manque de dents (Orb. l. c.)

**) T. trochiformi, subangulata; labio externo paululum incrassato, vix reflexo. — Cuba. (Sow. l. c.)

breviter recedens, angulo subrecto in peristoma tenue, expansiusculum abiens; callus basalis tenuissimus, diffusus. — Operc. tenue, pallide corneum. — Diam. maj. 3, min. $2^2/_3$, alt. $2^1/_4$ mill. (Coll. Nr. 56.)

Helicina Antoni Pfr. in Zeitschr. f. Malak. 1848. p. 88.
— — *Chemn.* ed. II. N. 55. p. 44. t. 5. f. 35—38.

Habitat Honduras (Dyson).

§. 9.

649 86. **H. maxima Sowerby.**

T. globoso-depressa, solidiuscula, laevigata, albida; spira brevissima, vix mucronulata; anfr. $5^1/_2$ subplani, rapide accrescentes, ultimus depressus, basi convexior; apertura subverticalis, ampla, semiovalis; columella basi subtuberculata, retrorsum in callum semicircularem, concolorem dilatata; perist. simplex, expansum, reflexiusculum. — Operc.? — Diam. maj. 25, min. 21, alt. 15 mill. (Mus. Cuming.)

Helicina maxima Sow. in Proc. Zool. Soc. 1842. p. 6. *)
— — *Sow.* Thes. N. 37. p. 8. t. 1. f. 11.
— — *Chemn.* ed. II. N. 56. p. 44. t. 6. f. 3. 4.

Habitat in insula Jamaica (Adams).

650 87. **H. nobilis Adams.** †

T. depresse globoso-conica, crassa, solida, laevigata, interdum striis nonnullis spiralibus sculpta, saturate rufa, basi alba; spira convexo-conica; anfr. fere $4^1/_2$, subplanulati, sutura profundiuscula juncti, ultimus antice et superne valde depressus, imo sinuatus; apertura superne compressa, lateraliter expansa; labrum crassiusculum, medio modice reflexum, emarginatum sicut H. maxima. — Diverg. media 130°; lat. max. 0,9; lat. min. 0,73; alt. 0,55 poll. (A.)

Helicina nobilis Adams in Ann. Lyc. N. York V. N. 2. p. 49 et Contr. to Conch. N. 8 p. 133. **)

Habitat in insula Jamaica.

*) T. globosa, subdepressa, laevi, alba; apertura magna, semilunari, margine reflexo, acuto; labio interno crassiusculo; columella obtuse angulata. — Alt. 0,50; lat. 1″. (Sow. l. c.)

**) Shell depressed globose conic, thick and solid: white beneath and at the end of the last whorl, otherwise rufous or dark brownish red: very

88. H. citrina Grateloup. 651

T. subdepressa, tenuis, striatula, nitida, diaphana, citrina; spira brevis, subconoidea; anfr. 5 planiusculi, celeriter accrescentes, ultimus magis minusve depressus et subangulosus, basi convexior; apertura vix obliqua, late semiovalis; columella brevis, arcuata, basi truncata, angulatim in peristoma simplex, breviter expansum abiens. — Operc. extus testaceum, intus purpureum, costa elevata alba munitum. — Diam. maj. 16, min. 13, alt. 10 mill. (Coll. Nr. 57.)

Helicina citrina Grat. in Act. Bord. XI. p. 413. t. 3. f. 15.*)
— — *Chemn.* ed. II. N. 57. p. 45. t. 3. f. 4—9. t. 7. f. 1. 2.
— *polita Sow.* in Proc. Zool. Soc. 1842. p. 7.**)
— — *Sow.* Thes. N. 33. p. 8. t. 2. f. 76—81.
— — *Reeve* Conch. syst. II. t. 186. f 9.

β. Minor, unicolor vel ad suturam albofasciata; diam. maj. 8½, min. 7, alt. 6 mill.

Habitat in insulis Luzon, Mindanao, Zebu (H. Cuming).

89. H. similis Sowerby. † 652

T. *H. politae* simillima, sed impolita, concentrice leviter striata, fusca. (Sow.) — Diam. 13½, alt. 8½ mill. (Ex ic.)

Helicina similis Sow. in Proc. Zool. Soc. 1842. p. 8.
— — *Sow.* Thes. N. 34. p. 8. t. 3. f. 130.

Habitat in insula Guadeloupe.

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smooth, the striae of growth being very light; sometimes with a few very light spiral striae: apex obtuse: spire convex conic: whorls nearly four and one-half, subplanulate, with a rather deep suture: last whorl much depressed or even sinuate between the periphery and suture at its termination: aperture compressed above, expanded laterally: lip rather thick, moderately reflected along the middle only; with a notch like that of *H. maxima Sow.* -- This species differs from *H. maxima* in the flattening of the whorls, which renders the spire conic; in the compression of the aperture from above, and the slight reflection of the lip; it is also more solid and less convex beneath. (Adams l. c.)

*) T. orbiculato-depressa, subcarinata, aurantia, splendente, laevigata, pellucida, subtiliter striata; apertura subtriangulari; labro reflexo, acuto; anfract. 5. — Alt. 10, diam. 16 mill. — Manilla. (Grat. l. c.)

**) T. polita, tenui, pellucida, plus minusve depressa et angulata; anfr. superne subcomplanatis, infra ventricosis; labio interno tenui, antice paululum inflato; columella angustata, ad basin leviter angulata; labio externo tenui, expanso, reflexo, super angulum plus minusve depresso; operculo interne rubro, externe submargaritaceo. — Alt. 0,40; lat. 0,60 poll. (Sow. l. c.)

653 **90. H. Antillarum Sowerby.**

T. depressa, tenuis, striatula, lineolis obliquis minutissime decussata, subpellucida, rufa, aurantiaca vel virenti-flava, fascia pallida articulata interdum cincta; spira brevis, obtusiuscula; anfr. fere 5 convexiusculi, celeriter accrescentes, ultimus depressus, basi subconvexus; apertura obliqua, subsemicircularis; columella brevis, basi extus obsolete tuberculata et angulo obtusissimo in peristoma tenue, expansum, album vel fulvidum abiens; callus basalis circumscriptus, tenuis. — Operc. violacescenti-castaneum. — Diam. maj. 16, min. 14, alt. 10 mill. (Coll. Nr. 58.)

Helicina Antillarum Sow. Thes. N. 29. p. 7. t 2. f. 68—70.*)
— — *Reeve* Conch. syst. II. t. 186. f. 15.
— — *Chemn.* ed. II. N. 58. p. 46. t. 3. f. 1—3.

Habitat in insulis Antillis.

654 **91. H. Guadaloupensis Sowerby.**

T. depressa, solidiuscula, oblique striata, lineis concentricis minutissimis decussata, subopaca, carneo-lutescens; spira parum elata, subpapillata; anfr. fere 5 planiusculi, sensim accrescentes, ultimus subangulatus, depressus, basi convexiusculus; apertura obliqua, subtriangularis; columella brevis, antrorsum curvata et tuberculum formans; perist. albidum vel aurantiacum, brevissime expansum, intus incrassatum, marginibus strictiusculis; callus basalis late diffusus, tenuis. — Operc. castaneo-purpureum. — Diam. maj. 13, mir. 11, alt. $7^1/_2$ mill. (Coll. Nr. 59.)

Helicina Guadaloupensis Sow. in Proc. Zool. Soc. 1842. p. 8.**)
— — *Sow.* Thes. N. 31. p. 7. t. 2. f. 65. 66.
— — *Chemn.* ed. II. N. 59. p 46. t. 3. f. 10—12.

Habitat in insula Guadeloupe.

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*) T. depressa, magna, tenui, leviter striata; anfractu ultimo magno; labio interno tenui, prope columellam paululum incrassato; columella rotundata, angusta, obtusissime angulata; labio externo expanso, reflexo, postice subdepresso. (Sow. l. c.).

**) T. laevi, depressa, subangulata, concentrice leviter striata, rubra, lutescente; columella ad basin subnodosa; labio externo crasso, reflexo; anfractibus gradatim crescentibus, supra infraque subventricosis; operculo fusco. — Alt. 0,35; lat. 0,60 poll. — β. Pallide brunnea; alt. 0,20; lat. 0,35 poll. (Sow. l, c.)

92. **H. fulva Orbigny.** 655

T. depresse conoidea, solidiuscula, concentrice striata, nitidula, lutescenti-cornea; spira conoidea, acutiuscula; anfr. $5^1/_2$ subplanulati, ultimus convexior, antice non descendens, basi planiusculus; apertura parum obliqua, integra, late semiovalis; columella brevis, arcuata, superne a callo basali tenui rectangule patens, basi subangulosa; perist. incrassatum, album, vix expansiusculum. — Operc. immersum, testaceum. — Diam. maj. 11, min. $9^2/_3$, alt. 8 mill. (Coll. Nr. 60.)

Helicina fulva Orb. Synops. p. 28. *)
— — *Orb.* Voy. Amér. p. 358. t. 46. f. 1—5.
— — *Sow.* Thes. N. 61. p. 12. t. 1. f. 23. **)
— — *Chemn.* ed. II. N. 60. p. 47. t. 2. f. 24. 25.

Habitat in provincia Chiquitensi reipublicae Bolivianae.

93. **H. Brasiliensis Gray.** 656

T. depresso-conoidea, tenuiuscula, concentrice confertim striata, flavida vel carnea; spira brevis, conoidea, acutiuscula; anfr. $4^1/_2$ vix convexiusculi, ultimus obsolete angulatus; apertura parum obliqua, semiovalis, paulo altior quam lata; columella verticalis, lineam arcuatam impressam retrorsum emittens, basi obsolete tuberculata; perist. album, incrassato-expansum, saepe duplicatum; callus basalis tenuissimus. — Operc. tenue, castaneo-rubrum. — Diam. maj. $7^1/_3$, min. 6, alt. $4^1/_2$ mill. (Mus. Cuming.)

Helicina Brasiliensis Gray in Zool. Journ. I. p. 66. t. 6. f. 5. ***)
— — *Desh.* in Lam. hist. VIII. p. 160. N. 10.
— — *Sow.* Thes. N. 62. p. 12. t. 1. f. 29. †)
— — *Chemn.* ed. II. N. 61. p. 47. t. 7. f. 10. 11.

β. Major; diam. maj. 9, min. 7, alt. 6 mill. (Coll. Nr. 61.)
Helicina Menkeana Phil. in Zeitschr. f. Malak. 1847. p. 126. ††)

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*) T. orbiculato-conica, ventricosa, subcrassa, striata, fulva; spira conica; anfr. 5; apertura semilunari; columella angulosa, crassa; labro crasso, subreflexo, albido. — Alt. 9, lat. 11 mill. (Orb. l. c.)

**) T. sub-angulata, spiraliter striata; columella triangulari, ad basin angulata; labio externo reflexo; operculo calcareo. (Sow. l. c.)

***) T. depresso-ovata (albida?), spiraliter striata et minute concentrice cancellata, supra et subtus convexa; perist. subincrassato, labiis subincrassatis; columella basi excavata, carinata. (Gray l. c.)

†) T. *H. fulvae* simillima, sed apertura subquadrata; columella recta, angustata. (Sow. l. c.)

††) T. globoso-conoidea, subangulata, tenui, flavescente, obsolete trans-

Helicina fasciata Deless. Recueil t. 27. f. 2. Nec Lam.
— *Brasiliensis var. Chemn.* l. c. t. 2. f. 22. 23.

Habitat in Brasilia.

657 94. **H. oresigena Orbigny.** †

T. orbiculata, subdepressa, tenuis, irregulariter striata, flavicans; spira conica; anfr. 4; apertura semilunaris, columella rotunda; labrum crassum. — Alt. 6½, lat. 9 mill. (O.)

Helicina oresigena Orb. Synops. p. 28.
— — *Orb.* Voy. Amér. p. 359. t. 46. f. 10—16.
— — *Sow.* Thes. N. 64. p. 13. t. 1. f. 28. *)

Habitat in provincia Yungasensi reipublicae Bolivianae.

Obs. Nonne praecedenti nimis affinis?

658 95. **H. sylvatica Orbigny.** †

T. orbiculato-convexa, conica, elevata, crassa, subtus (?) substriata, inferius laevigata, flavicans; spira conica, elevata; anfr. 5; apertura semilunaris; columella crassa, rotunda; labrum crassum, subreflexum, albidum. — Alt. 6, lat. 7 mill. (O.)

Helicina sylvatica Orb. Synops. p. 28.
— — *Orb.* Voy. Amér. p. 359. t. 46. f. 17—20.
— — *Sow.* Thes. N. 63. p. 12. t. 1. f. 30. **)

Habitat in Boliviae provinciis S. Cruz et Chiquitos.

659 96. **H. fasciata Lamarck.**

T. ovalis, depressa, tenuiuscula, oblique striatula, nitidula, albida vel flavida, zonis et taeniis ramosis purpureis varie ornata; spira breviter conoidea, apice mucronulata; anfr. 4½—5 planiusculi, celeriter accrescentes, ultimus latus, depressus, basi planiusculus; columella breviter arcuata; apertura perobliqua, subtriangularis, latior quam alta; perist. subincrassatum, expansum, margine infero stricte in callum basalem crassum, superne diffusum, continuato. — Operc. tenue, cor-

versim costato-striata; apertura semilunari, aeque alta ac lata; labro incrassato, late reflexo, saepe duplicato; columella basi angulata; callo labiali subnullo. — Alt. 2⅔, diam. 4 lin. (Philippi l. c.)

*) T. *H. fulvae* simillima, sed labio externo vix expanso, subreflexo; columella angustiori. (Sow. l. c.)

**) T. *H. fulvae* simili, sed leviori, spira magis elevata. (Sow. l. c.)

neum. — Diam. maj. 7—10, min. 6—8, alt. 5—6 mill. (Coll. Nr. 62.)

Helicina fasciata *Lam.* Hist. VI. p. 103. N. 3. Ed. Desh. VIII. p. 158. *)
— — *Gray* in Zool. Journ. I. p. 65. t. 6. f. 3. **)
— — *Desh.* in Encycl. méth. II. p. 268. N. 3. ***)
— — *Pot.* et *Mich.* Gal. Douai I. p. 229. t. 23. f. 3. 4.
— — *Chemn.* ed. II. N. 62. p. 48. t. 3. f. 26—35.
— *picta* *Fér.* Mus.
— — *Sow.* Thes. N. 27. p. 6. t. 2. f. 56. t. 3. f. 140. 141. †)
— *rotellaris* *Menke* Synops. p. 80. Ed. II. p. 133. (Juv.) ††)

Habitat in insulis Portorico et Martinique.

Obs. Species et magnitudine et coloribus maxime variabilis.

97. H. versicolor Pfr. 660

T. depressa, tenuis, laevigata, citrino et viridi variegata, prope verticem purpurea; spira parum elevata, obsolete papillata; anfr. $4^1/_2$ planiusculi, rapide accrescentes, ultimus latus, subdepressus, antice vix descendens; apertura diagonalis, subtriangulari-semiovalis; columella brevissima, callum crassum, semicircularem, nitidum, album emittens; perist. breviter expansum, margine basali subreflexo, immediate in columellam continuato. — Operc. tenue, submembranaceum, castaneum,

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*) T. orbiculato-convexa, depressa, tenui, pellucida, albido-cornea, rufo fasciata; labro margine interiore albo, subreflexo. — Diam. 3'''. — Portorico. (Lam. l. c.)

**) T. depresso-ovata, albida, laevis, tenuis, pellucida; supra convexa, interrupte rufo-fasciata; subtus subconvexa, rufo lineata, peristomate incrassato, reflexo, albo, columella labiisque callosis, albis; operculo corneo. (Gray l. c.)

***) Petite coquille très mince, pellucide, très fragile, ovale, déprimée, fort convexe en dessus, moins bombée en dessous, où elle est legèrement déprimée. Son ouverture est oblique, semilunaire, à péristome épais, blanc, réfléchi en dehors. La columelle est blanche, calleuse à la base, très lisse et très brillante. En dessus, cette coquille est ornée de fascies, de taches subarticulées rousses, ou brunes et blanches; sur le pourtour du dernier tour, une de ces zones est plus large, plus constante et plus blanche; on y voit des linéoles continues, rougeâtres. Cette jolie coquille, qui a à peine trois lignes de diamètre, vient de Porto-Ricco. (Desh. l. c.)

†) T. depressa, laevi; anfractu ultimo magno; labio externo subexpanso; columella obliqua, confluenti. (Sow. l. c.)

††) T. orbiculato-convexiuscula, longitudinaliter substriata, albida, fascia lata, rufa; apertura semirotunda; callo columellari coarctato; labro simplici, acuto. — Alt. 2, lat. 3'''. — Habitat? (Menke l. c.)

margine columellari et nucleo pallidis. — Diam. maj. 8, min. $6^2/_3$, alt. $5^1/_2$ mill. (Mus. Cuming.)

Helicina versicolor Pfr. in Zeitschr. f. Malak. 1850. p. 77.

Habitat in insula Haiti (Sallé).

661 98. **H. Dysoni Pfr.**

T. orbiculato-conoidea, solidiuscula, striatula, nitidula, carnea, superne fasciis 2 angustis, saturatioribus ornata; spira elata, obtusiuscula; anfr. 5 convexiusculi, lente accrescentes, ultimus antice vix descendens, basi subplanatus; apertura obliqua, semiovalis, altior quam lata; columella brevis, basi subtruncata, callum albidum, linea subimpressa circumscriptum, emittens; perist. simplex, brevissime reflexiusculum, margine utroque leviter curvato. — Diam. maj. 8, min. 7, alt. $5^1/_2$ mill. (Coll. Nr. 63.)

Helicina Dysoni Pfr. in Proc. Zool. Soc. 1848. p. 121.
— — *Chemn.* ed. II. N. 63. p. 49. t. 3. f. 36—39. t. 8. f. 24—29.

β. Minor, saturate carnea, superne fasciis 2 angustis rubris et ad peripheriam 1 albida cincta; diam. maj. 7, min. $6^1/_4$, alt. $4^1/_2$ mill. (Mus. Cuming.)

γ. Fulvo-rubella, superne fasciis 2 angustis saturatioribus ornata.

δ. Minor, flava, superne fasciis 2 angustis fulvis, ad peripheriam 1 albida ornata; diam. maj. 6, min. $5^1/_3$, alt. $4^1/_3$ mill.

Habitat in Cumana; varr. in Honduras (Dyson).

662 99. **H. sublaevigata Pfr.**

T. conoideo-depressa, solidula, sublaevigata, nitidula, unicolor, rubella vel albida, subtus violaceo-zonata; spira breviter conoidea, vertice obtusulo; anfr. 5 vix convexiusculi, ultimus latior, peripheria obsolete angulatus; apertura diagonalis, subsemiovalis; columella brevis, simplex, callum crassiusculum, circumscriptum retrorsum emittens; perist. simplex, breviter expansum, margine basali fere rectilineari, ad columellam subdentato. — Operc. tenue, corneum, immersum. — Diam. maj. 8, min. $6^1/_2$, alt. 5 mill. (Mus. Cuming.)

Helicina sublaevigata Pfr. in Proc. Zool. Soc. 25 Maj. 1852.

Habitat in insulis Novis Hebridis.

663 100. **H. diaphana Pfr.**

T. subconoideo-depressa, tenuis, oblique striatula, diaphana, nitidula, fulvo-lutescens; spira subelevata, apice obtusa; anfr. 4

planiusculi, ultimus obsolete subangulatus; columella brevissima, basi subnodosa, in callum circumscriptum, sub lente granulatum retrorsum dilatata; apertura subobliqua, semilunaris; perist. simplex, breviter expansum, margine basali leviter arcuato, in nodulum columellarem sensim transeunte. — Operc. tenue, immersum, lutescens. — Diam. maj. 5, min. $4^3/_4$, alt. $3^1/_3$ mill. (Mus. Cuming.)

Helicina diaphana Pfr. in Proc. Zool. Soc. 1850. p. 98.

Habitat in Honduras (Dyson).

101. **H. Küsteriana Pfr.** 664

T. depressa, tenuiuscula, oblique striata et lineis elevatis concentricis, distantioribus brevissime pilosis munita, diaphana, pallide cornea; spira brevis, obtusa; anfr. vix $3^1/_2$ convexiusculi, ultimus depressus, antice non descendens, basi parum convexus; apertura obliqua, triangulari-semiovalis; columella brevissima, simplex, retrorsum in callum semicircularem, vitreum, antice in peristoma simplex, tenue, expansiusculum abiens. — Operc.? — Diam. maj. $4^2/_3$, min. 4, alt. $2^1/_2$ mill. (Coll. Philippi.)

Helicina Küsteriana Pfr. in Zeitschr. f. Malak. 1848. p. 88.
— — *Chemn.* ed. II. N. 64. p. 50. t. 9. f. 22—25.

Habitat in insula Tahiti.

102. **H. Louisiadensis Forbes.** 665

T. conoideo-depressa, solidiuscula, nitida, sub lente concentrice striata, rubello-cornea; spira conoideo-convexa, acutiuscula; anfr. 4 convexiusculi, ultimus subdepresso-rotundatus, basi pone columellam brevem subexcavatus, leviter callosus; apertura obliqua, subtriangulari-semiovalis; perist. simplex, tenue, undique breviter expansum. — Operc. subtriangulare, pallidum. — Diam. maj. $4^1/_2$, min. $3^2/_3$, alt. $2^3/_4$ mill. (Mus. Cuming.)

Helicina Louisiadensis Forbes in Voy. Rattlesnake. App. p. 382. t. 3. f. 5.

Habitat „Round Island in Coral Haven" Archipelagi Louisiadarum (Macgillivray).

§. 10.

103. **H. Sowerbyana Pfr.** 666

T. depresse trochiformis, tenuiuscula, lineis impressis spiraliter sulcata, alba; spira conica, acutiuscula; anfr. 6 pla-

niusculi, ultimus subcarinatus, basi convexiusculus; apertura parum obliqua, subtriangularis; columella tenuis, basi nodifera; perist. simplex, angulatim expansum, margine supero sinuato; callus basalis tenuissimus. — Operc.? — Diam. maj. 21, min. 17, alt. 14 mill. (Mus. Cuming.)

Helicina Sowerbyana Pfr. in Proc. Zool. Soc. 1848. p. 124.
— — *Chemn.* ed. II. N. 65. p. 50. t. 6. f. 9. 10.

Habitat Guatemala (Lattre).

667 104. **H. occidentalis Guilding.**

T. depressa, tenuiuscula, lineolis obliquis subgranulata, albo-flavida, rufo nebulosa et variegata; spira brevis, conoidea, submucronata; anfr. 6 planiusculi, ultimus depressus, angulatus, basi fere planus; apertura perobliqua, triangularis; columella brevis, basi subtuberculata, retrorsum in callum diffusum dilatata; perist. expansum, reflexum, margine supero depresso. — Operc. semiovale, nigro-castaneum. — Diam. maj. 19, min. 15, alt. 10½ mill. (Mus. Cuming.)

Helicina fasciata Guild. in Linn. Trans. XIV. 2. p. 339. Nec Lam.
— *occidentalis Guild.* in Zool. Journ. III. p. 529. t. 15. f. 6—10. *).
— — *Desh.* in Lam. hist. VIII. p. 164. N. 19.
— — *Sow.* Thes. N. 30. p. 7. t. 2 f. 86. 87. **)
— — *Chemn* ed. II. N. 66. p. 51. t. 6. f. 19 20. t. A. f. 13. (ex Guild.)
Pachytoma occidentalis Swains. Malac. p. 337. (p. 184. f. 28.)
β. Minor, distinctius rubro-fasciata.

Habitat in insula St. Vincentii, 2000′ supra Oceanum.

668 105. **H. amoena Pfr.**

T. subsemiglobosa, solidiuscula, oblique striatula, lineisque impressis, concentricis, distantibus sculpta, nitidula, roseo et luteo vel albo variegata; spira convexa, mucronulata; anfr. 5½ vix convexiusculi, ultimus infra medium carinatus, basi subplanus; apertura obliqua, subtriangularis, intus flava; columella brevis, verticaliter subrimata, basi angulosa, retrorsum

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*) T. flavida, superne rufo-nebulosa, subtus unifasciata; columella lactea, labro candido; anfr. 6; operculo brunneo, margine pallido. — β. Superne trifasciata, fascia media majori. — γ. Superne rufo varia, margine immaculato. (Guild. l. c.)

**) T. depressa, reticulata; obsoletissime carinata; columella rotundata; labio externo expanso, reflexo; operculo corneo. (Sow. l. c.)

in callum tenuem, diffusum abiens; perist. simplex, margine supero late expanso, basali reflexo. — Operc. tenuiusculum, nitide castaneum. — Diam. maj. 15, min. 12½, alt. 9½ mill. (Coll. Nr. 64.)

Helicina amoena Pfr. in Proc. Zool. Soc. 1848. p. 119.
— — *Chemn.* ed. II. N. 73. p. 55. t. 8. f. 13–15.
— *purpureo-flava Morelet* Test. noviss. I. p. 19. N. 46. *)

Habitat Honduras; in provinciis Peten et Vera Paz (Morelet).

106. **H. goniostoma Sowerby.** † 669

T. subglobosa, laevis, solidula, obscure brunnea, prope suturam late albo-cingulata; spira depressiuscula, conica; apertura lata, ampla, carina obtusa anfractus ultimi angulata; labrum deorsum productum, album. (Sow. l. c.) — Diam. 12, alt. 9 mill. (Ex ic.)

Helicina goniostoma Sow. in Beech. voy. Zool. p. 145. t. 38. f. 21.

Habitat . . .?

107. **H. lutea Lesson.** † 670

T. orbiculata, convexa, solida, crassa, superne minutim striata, aurea; spira parum elata; anfractus ultimus globosus, medio subcarinatus; apertura obliqua, semicircularis, intus nitide alba; columella alba, sinuata („épatée"); perist. simplex, liberum. — Diam. 5, alt. 3 lin. (Less. l. c.)

Helicina lutea Less. Voy. Coquille p. 350. t. 13. f. 10.

Habitat Port-Dorey Novae Guineae.

108. **H. rotella Sowerby.** † 671

T. laevis, angulata, vix carinata; labium externum reflexum; labium internum expansum; columella subangulata. (Sow.) — Diam. 11, alt. 7 mill. (Ex ic.)

Helicina rotella Sow. Thes. N° 57. p. 12. t. 3. f. 135. 136.

Habitat . . .?

Obs. Iconi praecedentis persimilis videtur.

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*) T. orbiculato-depressa, conoidea, obtuse carinata, colore varia, saepius citrina, anfractu ultimo purpurascente; anfr. 7 planulati, minute striati, lineolis remotis concentricis impressi; columella brevissima, callo subprominulo, replicato, appresso munita; apertura triangularis, marginibus pallidioribus, reflexis. — Diam. maj. 15, min. 12 mill. (Morelet l. c.)

672 109. **H. Gouldiana Forbes.** †

T. depresso-globosa, superne subconica, orbicularis, obsolete subangulata, flava seu rufa, spiraliter striata; spira prominens; anfr. 5 planati; basis imperforata; apertura sublunata, inferne angulata; perist. incrassatum, subreflexum, album. — Diam. maj. 6, min. $5^1/_4$, alt. $4^1/_2$ mill. (Forb.)

Helicina Gouldiana Forbes in Voy. Rattlesnake. App. p. 382. t. 3. f. 3.

Habitat „Two Isles, N. E. coast" Australiae (Macgillivray).

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673 110. **H. Lindeni Pfr.**

T. globoso-conica, tenuiuscula, subtilissime striolata et punctata, subdiaphana, pallide straminea vel carnea; spira conica, acutiuscula; anfr. 6 vix convexiusculi, ultimus inflatus, obsolete angulatus, antice non descendens; apertura parum obliqua, semiovalis, altior quam lata; columella leviter arcuata, extrorsum in denticulum desinens, callum emittens exiguum, tenuem; perist. breviter expansum, reflexiusculum. — Operc.? — Diam. maj. $11^1/_2$, min. 10, alt. $8^1/_3$ mill. (Mus. Cuming.)

Helicina Lindeni Pfr. in Proc. Zool. Soc. 1848. p. 123.
— — *Chemn* ed. II. N. 67. p. 52. t. 8. f. 22. 23.

Habitat Tapinapa, Mexico (Linden).

674 111. **H. Salleana Pfr.**

T. conoideo-subdepressa, tenuis, striatula et obsolete subgranulata, diaphana, nitida, purpurascenti-fusca; spira conoidea, acutiuscula; anfr. fere 5 convexiusculi, ultimus latior, peripheria subangulatus; apertura parum obliqua, subtriangularis; columella substricta, breviter recedens; perist. tenue, marginibus callo basali lato semiovali junctis, supero expansiusculo, basali in limbum latum, membranaceum, nigro-rufum reflexo, cum columella angulum formante. — Operc. terminale, subtriangulare, albidum. — Diam. maj. 9, min. $7^1/_3$, alt. $5^1/_2$ mill. (Mus. Cuming.)

Helicina Salleana Pfr. in Proc. Zool. Soc. 9 Mart. 1852.

Habitat in insula Haiti (Sallé).

675 112. **H. Columbiana Philippi.**

T. conica, solidula, confertissime concentrice striata, nitidula, superne carnea, interdum fusco late unizonata, basi lutes-

cens; spira regulariter conica; anfr. 5 convexiusculi, ultimus unicarinatus, non descendens; apertura subangulato-semicircularis; columella brevis, basi attenuata, lineola verticali impressa a callo basali albo, nitido distincta; perist. incrassatum, album, breviter expansum, marginibus arcuatis. — Operc. semicirculare, nitide castaneum. — Diam. maj. 11, min. 9½, alt. 8 mill. (Coll. Philippi.)

Helicina Columbiana Phil. in Zeitschr. f. Malak. 1847. p. 126. *)
— — *Chemn.* ed. II. N. 68. p. 52. t. 2. f. 1–3. t. 9. f. 5. 6.

β. Major, flavida, obscure punctata, infra medium albida.
Helicina Columbiana var. Chemn l. c. t 7. f. 7.

Habitat in Columbia.

113 **H. gonochila Pfr.** 676

T. conoideo-subglobosa, tenuiuscula, superne striis spiralibus obsoletis sculpta et punctata, nitidula, fulvo-carnea; spira brevis, conoidea, subacuta; anfr. 4½ vix convexiusculi, ultimus medio subcarinatus, luteo-cingulatus, basi convexior, distinctius concentrice striatus; apertura subobliqua, triangulari-semiovalis, altior quam lata; columella subrecedens, superne lineam impressam, brevem, curvatam emittens, basi acute dentata; perist. album, rectangule late patens, margine basali substricto, cum columella angulum acutiusculum formante. — Diam. maj. 10, min. 8, alt. 6½ mill. (Mus. Cuming.)

Helicina gonochila Pfr. in Proc. Zool. Soc. 1848. p. 121.
— — *Chemn.* ed. II. N. 69. p. 53. t. 7. f. 20. 21.

Habitat in Venezuela.

Obs. Peraffinis *H. Brasiliensi Gray.*

114. **H. elongata Orbigny.** 677

T. conica, solida, concentrice subremote elevato-striata, nitidula, alba, apice lutea; spira conica, acuminata; anfr. 7, summi 4 angulati, scalares, sequentes 2 subplani, ultimus convexiusculus, subcarinatus; columella brevis, subverticalis, retrorsum in callum circumscriptum, crassiusculum dilatata;

*) T. conica, subrhomboidali, confertim transversim striata, lutescente, concolore, seu fusco unizonata; anfractibus parum convexis, ultimo unicarinato; apertura triangulari, labro externo incrassato, reflexo, superne convexo, ad columellam subexciso; lineola impressa perpendiculari ad basin columellae. — Alt. $3^2/_3$'''; diam. 5'''. (Philippi l. c.)

apertura perobliqua, rotundato-subtriangularis, intus lutea; perist. tenue, expansum, margine supero subrepando, basali versus columellam recto, acuto. — Operc. immersum, testaceum, lutescens. — Diam. maj. 8, min. 7, alt. $7^1/_2$ mill. (Coll. Nr. 65.)

Helicina elongata Orb. Moll. Cub. I. p. 251. t. 20. f. 16—18. *)
— — *Sow.* Thes. N. 44. p. 9. t. 3. f. 110. **)
— *scopulorum Morelet* Testac. noviss. I. p. 20. N. 49. ***)
— — *Chemn.* ed. II. N. 98. t. 10. f. 21—23.
— *marmorea Velasq.* mss.
Trochatella? elongata Pfr. in Zeitschr. f. Mal. 1848. p. 82.

Habitat in „Isla de Pinos" prope Cubam.

678 115. **H. pyramidalis Sowerby.** †

T. conica, trochiformis, tenuis, diaphana, lutea, laevigata; spira elevato-conica, apice acuto; anfr. 7 plani, contigui, carinati; apertura triangularis; labrum acutum; columella non incrassata; aperturae angulus columellaris planus, subdentatus. — Diam. 6, alt. 6 mill. (Orb.)

Helicina conica Orb. Moll. Cub. I. p. 249. t. 20 f. 7—9. †) Nec Pfr.
— *pyramidalis Sow.* Thes. N. 43. p. 9. t. 3. f. 104. ††)

Habitat in insula Cuba (Sagra).

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*) T. elevato-conoidea, tenui, laevigata supra oblique malleata, albidolutea; spira elevata, conica, apice acuto; anfr. 7 minime convexis; apertura semilunari; labro acuto, lato, albo, antice interrupto; columella incrassata; aperturae angulo columellari simplici. — Diam. 6, long. 8 mill. — C'est avec *l'H. elegans* que celle-ci a le plus de rapport, par le caractère commun du bord réfléchi et interrompu en avant, par sa coquille plus longue que large; mais elle s'en distingue par sa plus grande taille, par ses tours de spire un peu carénés, par sa contexture lisse et martelée, et non pas striée. (Orb. l. c.)

**) T. conica, elongata, angulata, laevi; apertura semilunari; labio externo late expanso, in medio producto, ad basin columellae angustato; operculo corneo. (Sow. l. c.)

***) T. trochoidea, substriata, pallide rosea vel flavescens, apicem versus flavo saturatiore vel aurantiaca; spira mamillaris, apice prominulo, acutissimo; anfr. 8: priores turrito-contabulati, ultimo obtuse carinato, subtus parum convexo; columella callosa, brevis; apertura oblique ovalis, basi attenuata, marginibus vix reflexiusculis. — Diam. maj. $8^1/_2$, min. 6 mill. (Morelet l. c.)

†) D'une taille de moitié moindre que *l'H. Sloanii* cette espèce, qui en a les formes extérieures, en diffère encore par le manque de stries et par sa forme aussi haute que large. (Orb. l. c.)

††) T. forma *H. trochulinae* simili, sed majori; labio externo incrassato, in medio subexpanso. (Sow. l. c.)

116. **H. maculata Sowerby.** † 679

T. trapezoidea, subangulata, supra infraque conica, laevis, tenuis, rubro-fasciata et maculata; labium externum reflexum, subexpansum, ad basin columellae tenue; columella subcallosa, ad basin attenuata; operculum corneum. (Sow.) — Diam. 9, alt. 6½ mill. (Ex ic.)

Helicina maculata Sow. Thes. N. 32. p. 7. t. 3. f. 131.

Habitat in America meridionali.

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117. **H. substriata Gray.** † 680

T. depresso-ovata, lutescenti-albida, subcarinata, supra convexa, supra distanter spiraliter substriata, subtus subconvexa, laevis; perist. incrassatum, reflexum, (albidum?), columella labiisque incrassatis, callosis, albidis (?). (Gray.) — Diam. 8, alt. 6 mill. (Ex ic.)

Helicina substriata Gray in Zool. Journ. I. p. 66. t. 6. f. 4.
— — *Desh.* in Lam. hist. VIII. p. 160. N. 9.
— — *Sow.* Thes. t. 1. f. 22. (Ex Gray.)
— — *Chemn.* ed. II. N. 92. p. 67. t. 9. f. 30. (Ex Gray.)
Browne Jamaic. t. 40. f. 4. Cochlea n. 14?

Habitat in India occidentali.

118. **H. convexa Pfr.** 681

T. convexo-orbiculata, solida, laevigata, nitida, alba; spira fornicata, mucronulata; anfr. 4½, ultimi 2 convexiusculi, ultimus obsoletissime angulatus, antice vix descendens; apertura integra, obliqua, semilunaris; columella breviter arcuata, retrorsum in callum crassum, concolorem abiens; perist. incrassatum, breviter expansum, margine basali a callo columellari incisura levissima separato. — Operc.? — Diam. maj. 6½, min. 5¾, alt. 4½ mill. (Mus. Cuming.)

Helicina convexa Pfr. in Proc. Zool. Soc. 1848. p. 120.
— — *Chemn.* ed. II. N. 70. p. 53. t. 9. f. 9. 10.

Habitat . . .?

119 **H. minuta Sowerby.** 682

T. conoideo-depressa, striata, rubra vel straminea; spira subconvexa, acuminatiuscula; anfr. 4 subplani, ultimus paulu-

lum descendens, subangulatus, basi fere planus; apertura perobliqua, triangularis; columella brevissima, simplex, retrorsum in callum basalem nitidum, concolorem dilatata; perist. subincrassatum, expansiusculum. — Operc. tenue, rubellum. — Diam. maj. $4^1/_2$, min. $3^2/_3$, alt. $2^2/_3$ mill. (Coll. Nr. 66.)

Helicina minuta Sow. in Proc. Zool. Soc. 1842. p. 7. *)
— — *Sow.* Thes. N. 70. p. 13. t. 1. f. 40. 41.
— — *Chemn.* ed. II. N. 71. p. 54. t. 4. f. 24–27.
— *discolor Mühlf.* mss. in Ant. Verz. p. 53. n. 1938 β.

β. Spira paulo magis elevata:

Helicina flammeata Mühlf. mss. in Ant. Verz. p. 53. n. 1938.

Habitat in insulis Opara et Oheatora.

§. 11.

683 120. **H. unifasciata Gray.** †

T. subdepresso-ovata, obscure acute carinata, albida, fusco unifasciata, spiraliter subcostata, striata; spira convexa, conica, subtus convexa; perist. incrassatum, reflexum; aperturae angulus columellaris obtuse emarginatus. — Axis $^9/_{20}$; diam. $^6/_{10}$ poll. (Gray.)

Helicina unifasciata Gray in Zool. Journ. I. p. 69. t. 6. f. 12.
— — *Desh.* in Lam. hist. VIII. p. 163. N. 16.
— — *Sow.* Thes. t. 1. f. 21. (Ex Gray.)
— — *Chemn.* ed. II. N. 91. p. 67. t. 9. f. 37. (Ex Gray.)

Habitat . . .?

684 121. **H. Moreletiana Pfr.**

T. depresse conoidea, tenuiuscula, lineis elevatis spiralibus minute sculpta, opaca, rubello-flavida; spira brevis, conoidea, apice acuta; anfr. 5 plani, ultimus acute carinatus, non descendens, basi convexus; apertura perobliqua, triangularis; columella brevis, arcuata, callum crassum, album, circumscriptum emittens; perist. subincrassatum, album, margine supero late expanso-reflexo, basali leviter arcuato, late reflexo. — Operc.? — Diam. maj. $21^1/_2$, min. 18, alt. 10 mill. (Mus. Cuming.)

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*) T. parva, depressa, subangulata, rubra vel straminea; margine crasso, effuso; labio interno calloso; columella ad basin subemarginata. — Alt. 0,10; lat. 0,15 poll. (Sow. l. c.)

Helicina Moreletiana Pfr. in Zeitschr. f. Malak. 1850. p. 191.
— — *Chemn.* ed. II. N. 93. t. 10. f. 1. 2.

Habitat . . .?

122. **H. Kieneri Pfr.** 685

T. conoidea, tenuiuscula, oblique striata, lineis concentricis confertis subtilissime decussata, albida, fusco-violaceo-marmorata; spira convexo-conoidea, acuta; anfr. $5\frac{1}{2}$ vix convexiusculi, ultimus compresse carinatus, basi convexior; columella recedens, planata, superne impressa, basi incrassata in callum basalem tenuem abiens; apertura obliqua, integra, semiovalis, altior quam lata; perist. simplex, tenue, late expansum. — Operc.? — Diam. maj. 16, min. 13, alt. $11\frac{1}{2}$ mill. (Mus. Cuming.)

Helicina Kieneri Pfr. in Proc. Zool. Soc. 1848. p. 122.
— — *Chemn.* ed. II. N. 72. p. 54. t. 6. f. 17.

Habitat Caraccas (Sallé).

Obs. Species ad *H. neritellum* formatione columellae prope accedens, sed sculptura et carina discrepans.

123. **H. Moquiniana Récluz.** † 686

T. trochiformis, carinata, albo-lutescens, aurantio punctata et fasciata; anfr. 6 convexo-depressi, supremi fulvi, laevigati, 2 infimi transversim regulariter striati, cum interstitiis obscure subgranosis, infimus maculis parvis biseriatim pictus, carinatus; inferna facies convexa, concentrice striata, luteola, radiis obliquis, arcuatis punctis aurantiis ornata; labro crasso, reflexo. — Operc. testaceum, extus sanguineum. — Diam. 15, alt. 11 mill. (Récl.)

Helicina Moquiniana Récluz in Journ. Conch. 1851. II. p. 212. t. 5. f. 8.

Habitat in insulis Salomonis.

123a. **H. straminea Morelet.** † 686a.

T. campanulato-conica, tenuis, sub lente lineolis spiralibus et strigis incrementi decussata; anfr. 7 planulati, priores sutura profunda contabulati, citrini, ultimus pallidus, acute carinatus, basi parum convexus; carina albo marginata, fascia lutea subtus adnata; apertura obliqua, subtrigona; columella basi angulata, callosa; perist. subincrassatum, reflexiusculum. — Alt. 8, diam. 8 mill. (Mor.)

Helicina straminea Morelet Testac. noviss. II. p. 18. N. 125.

Habitat in montibus Guajaibon insulae Cubae.

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687 124. **H. caracolla Moricand.**

T. depressa, lenticularis, tenuis, concentrice confertim striata (striis spiralibus nonnullis elevatis), pellucida, citrina vel purpurascens; spira vix elevata, acutiuscula; anfr. $4^1/_2$ convexiusculi, ultimus acute carinatus, antice non descendens; apertura perobliqua, triangularis; columella brevis, superne in callum basalem tenuem dilatata, basi immediate in peristoma reflexum, albolabiatum abiens. — Diam. maj. 16, min. 13, alt. 8 mill. (Coll. Nr. 67.)

Helicina caracolla Moric. Mém. Genève VII. p. 444. t. 2. f. 24. 25.
— — *Chemn.* ed. II. N. 74. p. 56. t. 3. f. 13—16.
— *carocolla Desh.* in Lam. hist. VIII. p. 158. N. 5. *)
— — *Sow.* Thes. N. 51. p. 10. t. 2. f. 88. 89. **)

Habitat Almada Brasiliae.

688 125. **H. agglutinans Sowerby.**

T. depresso-conica, tenuiuscula, confertim striata, lutea; spira late conica, acuta; anfr. 5 planiusculi, ultimus carinatus, antice vix descendens, basi planiusculus; apertura perobliqua, subquadrilateralis; columella brevis, subexcavata, basi extrorsum angulata; perist. tenue, margine supero vix expansiusculo, basali breviter reflexo; callus basalis tenuis; carina juniorum appendice laciniata e rupium fragmentis agglutinatis alata. — Operc. testaceum, trapezio-semiovale. — Diam. maj. 17, min. 15, alt. $9^1/_2$ mill. (Coll. Nr. 68.)

Helicina agglutinans Sow. in Proc. Zool. Soc. 1842. p. 7. ***)
— — *Sow.* Thes. N. 52. p. 11. t. 2. f. 83—85.
— — *Reeve* Conch. syst. II. t. 186. f. 11. 12.
— — *Chemn.* ed. II. N. 75. p. 56. t. 2. f. 16—18.

Habitat in insulis Philippinis Guimaras, Bohol, Panay (H. Cuming).

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*) T. orbiculato-depressa, striata, citrina, ad peripheriam acute carinata; spira conica, brevi; ultimo anfractu basi convexo; apertura triangulari; labro albo, incrassato, reflexo. — Diam. 20 mill. (Desh. l. c.)

**) T. depressa, conica, tenuissime decussata; anfr. angulatis, in medio carinatis, supra et infra paululum inflatis; apertura subtrapezoidali; columella subcallosa; labio externo valide expanso, reflexo, in medio sub-attenuato. (Sow. l. c.)

***) T. depressa angulata, obtuse carinata, supra infraque aequaliter convexa, minute concentrice striata; apertura quadrilaterali; labio interno tenuissimo; columella triangulari, complanata, subumbilicata, ad basim obtuse angulata; labio externo effuso, reflexo, postice leviter depresso; operculo

126. **H. acutissima Sowerby.** 689

T. depresso-conica, solidula, oblique confertim striata, opaca, flava unicolor vel fasciis nonnullis rubris ornata; spira late conica, acuta; anfr. vix 5 plani, acute carinati, ultimus vix infra carinam descendens; apertura perobliqua, trapezia, intus concolor; columella brevis, dilatata, extus obsoletissime tuberculata; perist. expansum, latere dextro angulatum, margine supero tenui, basali subincrassato; callus basalis tenuis, diffusus. — Operc. testaceum, trapezium. — Diam. maj. 16, min. 14, alt. $8^1/_2$ mill. (Coll. Nr. 69.)

Helicina acutissima *Sow.* in Proc. Zool. Soc. 1842. p. 6. *)
— — *Sow.* Thes. N. 48. p. 10. t. 2. f. 92—95.
— — *Reeve* Conch. syst. II. t. 186. f. 2.
— — *Sow.* Conch. Man. Ed. II. f. 532. 533.
— — *Chemn.* ed. II. N. 76. p. 57. t. 2. f. 7—11.

β. Minor: diam. maj. 12, min. 10, alt. 7 mill.
γ. Minima: diam. maj. $9^1/_2$, min. 7, alt. $5^1/_2$ mill.

Habitat in insulis Philippinis Bohol, Siquijor, Zebu (H. Cuming).

127. **H. oxytropis Gray.** 690

T. depresso-turbinata, solida, carinata, rugoso-striatula, opaca, pallide flava; spira breviter conoidea, apice acutissima; sutura marginata; anfr. $5^1/_2$ planiusculi, ultimus compresse et acute carinatus, basi convexiusculus; apertura perobliqua, lunari-subtriangularis; columella declivis, callum tenuem retrorsum emittens, basi extus subangulata; perist. acutum, breviter expansiusculum. — Operc. tenue, testaceum, subtrapezium. — Diam. maj. 12, min. 10, alt. 5 mill. (Mus. Cuming.)

Helicina oxytropis *Gray* in Beech. Voy. Zool. p. 146. t. 38. f. 24. **)
— *oxystoma* *Sow.* Thes. N. 50. p. 10. t. 3. f. 139. ***)

Habitat . . .?

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crassiusculo, irregulariter quadrilaterali; epidermide aliquando per adhaesionem rupium fragmentorum in carinam latam praeruptam producta. — Alt 0,45; long. 0,75 poll. (Sow. l. c.)

*) T. plus minusve depressa, concentrice leviter striata, angulari, acutissime carinata, infra angulos paululum complanata; apertura triangulari; labio interno tenuissimo; columella subcomplanata, ad basim subundata; labio externo acuto, valide reflexo, expanso, super angulum subdepresso. (Sow. l. c.)

**) T suborbiculari, depressiuscula, glabra, carinata, pallide flava; spira depresso-conica; anfr. 4 acute carinatis; apertura ampla, margine externo acute angulata, alba; callo columellari flavo. (Gray l. c.)

***) T. *H. acutissimae* simili, sed crassiori; labio interno valido. — Bahia. (Sow. l. c.)

691 128. **H. pallida Gould.** †

T. lenticularis, solidiuscula, luteo-cinerea, inaequaliter striata, epidermide tenuissima induta; spira depressa; anfr. 5 carinati, planati; apertura semilunaris, ad columellam callosa; labrum modice reflexum. — Lat. $^{3}/_{10}$, alt. $^{3}/_{20}$ poll. (G.)

Helicina pallida Gould in Proc. Bost. Soc. 1847. p. 202; Exped. shells p. 37. *) Ed. 1851. p. 96. f. 113.

Habitat in insulis Feejee.

692 129. **H. acuta Pfr.**

T. depresso-conica, solidula, oblique confertim striata et subgranulata, opaca, lutea, superne rubro-unifasciata; spira conoidea, acuta, mucronata; anfr. fere 6 planiusculi, acute carinati, ultimus antice vix descendens, basi planiusculus; apertura perobliqua, subtriangularis; columella subverticalis, brevissima, basi angulata, superne in callum basalem tenuissimum abiens; perist. simplex, aurantiacum, margine supero subrecto, basali subincrassato. — Operc.? — Diam. maj. 15, min. $12^{2}/_{3}$, alt. $7^{1}/_{2}$ mill. (Mus. Cuming.)

Helicina acuta Pfr. in Proc. Zool. Soc. 1848. p. 119.
— — *Chemn.* ed. II. N. 77. p. 58. t. 8. f. 16. 17.

Habitat Sibonga insulae Zebu Philippinarum (H. Cuming).

693 130. **H. Lazarus Sowerby.**

T. depresse conica, solidula, ruditer striata et granulosa, opaca, citrina; spira elevata, acutiuscula; anfr. $5^{1}/_{2}$ fere plani, ultimus carinatus, utrinque aequaliter subconvexus, antice vix descendens; apertura perobliqua, subtriangularis; columella brevissima, basi extus angulata, lineam arcuatam, callum tenuem cingentem, emittens; perist. simplex, tenue, vix expansiusculum. — Operc.? — Diam. maj. $9^{2}/_{3}$, min. $8^{1}/_{2}$, alt. 5 mill. (Mus. Cuming.)

Helicina Lazarus Sow in Proc. Zool. Soc. 1842. p. 7. **)
— — *Sow.* Thes. N. 53. p. 11. t. 2. f. 91.
— — *Chemn.* ed. II. N. 78. p 58. t. 7. f. 18. 19.

Habitat in insula Luzon (H. Cuming).

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*) Resembles somewhat *H. miniata Less.*, which is more solid, polished, lip simple, suture double. In shape and color it is like *H oxystoma Gray*, but is smaller, and the lip not angular at the carina. (Gould l. c.)

**) T. pallide fulva, *H. agglutinanti* simillima, sed magis elevata; columella angustiori. — Alt. 0,28; lat. 0,40 poll. (Sow. l. c.)

131. H. trochiformis Sowerby. 694

T. trochiformis, solida, oblique striatula, opaca, pallide straminea; spira conica, acuta; anfr. $4^1/_2$ plani, acute carinati (carina subexserta), ultimus basi subplanus, antice descendens; apertura perobliqua, subtriangularis; columella brevis, simplex; perist. tenue, undique expansum, latere dextro vix angulatum. — Operc.? — Diam. maj. 8, min. 7, alt. 5 mill. (Coll. Nr. 70.)

Helicina trochiformis Sow. in Proc. Zool. Soc. 1842. p. 7. *)
— — *Sow.* Thes. N. 49. p. 10. t. 2. f. 90.
— — *Chemn.* ed. II. N. 79. p. 59. t. 2. f. 12. 13.

Habitat in insula Negros Philippinarum (H. Cuming).

132. H. viridis Lamarck. † 695

T. depresso-ovata, angulata, carinata, viridis, nitida, laevis, tenuis, carina albido-lutea; spira convexa; subtus convexiuscula; perist. luteum, reflexum, subincrassatum, labiis tenuibus; columella basi callosa, alba. — Axis $^6/_{20}$, diam. $^{11}/_{20}$ poll. (Gray.) — Diam. 12, alt. $7^1/_2$ mill. (Ex ic.)

Helicina viridis Lam. Hist VI. p. 103. N. 4. Ed. Desh. VIII. p. 158. **)
— — *Gray* in Zool. Journ. I. p. 67. t. 6. f. 7.
— — *Desh.* in Encycl. méth. II. p. 268 N. 4. ***)
— — *Deless.* Recueil t. 27. f. 3.
— — *Reeve* Conch syst. II. t. 186. f. 8.
— — *Sow* Thes. N 54. p. 11. t. 2. f 67. †)
— — *Chemn.* ed. II. N. 80. p. 59. t. 9. f. 11. (Ex Gray.)
Pachytoma viridis Swains. Malac. p. 337.

Habitat in insula Haiti (Lam.), Cuba (Sowerby).

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*) T. lutea, *H. acutissimae* simillima, sed spira altiori; labio externo postice subdepresso. — Alt. 0,20; lat. 0,30 poll. (Sow. l. c.)

**) T minima, orbiculato-convexa, depressa, ad peripheriam angulato-carinata, laevi, nitida, viridi; labro simplici acuto. — Diam 2'''. (Lam. l. c. ex spec. juv.)

***) Très jolie coquille, d'une belle couleur verte, uniforme, avec une zone blanche sur le milieu du dernier tour, qui est légèrement caréné dans cet endroit. Cette espèce est ovale, déprimée, à spire conique peu élevée; la base est convexe; son test est mince, lisse, brillant, translucide; son ouverture semilunaire, oblique, est bordée d'une lèvre un peu épaisse, réfléchie en dehors, d'une couleur jaune, quelquefois teintée de rouge; la columelle calleuse à la base, est courte et blanche. — Diam. 2—3 lignes. (Desh. l. c.)

†) T. laevi, tenui; anfractibus angulatis, carinatis, supra et infra rotundatis; labio externo tenui, expanso; columella sub-callosa. (Sow. l. c.)

696 133. **H. taeniata Quoy.** †

T. discoidea, tenuiter striata, carinata, desuper paululum conoidea, subtus inflata, alba, rubro cincta; anfr. $4^{1}/_{2}$; apertura semilunata; perist. subreflexum; columellà unidentata. — Diam. $4^{1}/_{2}$ lin. (Q.)

Helicina taeniata Quoy et *Gaim.* Voy. Astrol. Zool. II. p. 194. t. 12. f. 6—10.
— — *Desh.* in Lam. hist. VIII. p. 159. N. 7.
— — *Sow.* Thes. t. 2. f. 49—51. (Ex Quoy.)
— — *Chemn.* ed. II. N. 85 a. p. 63. t. A. f. 14. (Quoy.)

β. Minor, subglobulosa, fasciis 2—3 rubris.
Helicina taeniata Quoy l. c. t. 11. f. 34—38.

Habitat in insula Vanikoro, var. β in insula Tonga.

697 134. **H. rhodostoma Gray.**

T. subdepressa, tenuiuscula, subtilissime granulato-punctata, rufulo et albido variegata; spira breviter conoidea, acutiuscula; anfr. 5 vix convexiusculi, rapide accrescentes, ultimus acute carinatus, basi paulo convexior; apertura obliqua, subtriangularis; columella brevis, plana, dilatata, superne in callum tenuem expansa, basi pone axin recedens, in spinam desinens; perist. tenue, angulatim expansum, sanguineum. — Operc. solidum, semiovale, rubellum. — Diam. maj. 15, min. $10^{1}/_{2}$, alt. fere 8 mill. (Mus. Cuming.)

Helicina rhodostoma Gray in Zool. Journ. I. p. 68. t. 6. f. 9. *)
— — *Desh.* in Lam. hist. VIII. p. 161. N. 13.
— — *Reeve* Conch. syst. II. t. 186. f. 5.
— — *Sow.* Thes. N. 59 p. 12. t. 2. f. 71. **)
— — *Chemn.* ed. II. N. 81. p. 60. t. 7. f. 4. 5.
Oligyra rhodostoma Swains. Malacol. p. 337.

β. Omnino albida, peristomate niveo. (Mus. Cuming.)

Habitat in insula Guadeloupe.

698 135. **H. bicolor Pfr.**

T. depresso-conoidea, acute carinata, tenuiuscula, striatula et sub lente minutissime punctato-granulata, albida, fasciis 2

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*) T. subdepresso-carinata, punctulata, albida, rufescente marmorata, carina albida; perist. incrassato, reflexo, rufo-aurantiaco; angulo columellari producto, spinoso; columella callosa. — Axis $^{3}/_{8}$, diam. $^{1}/_{2}$ poll. (Gray l. c.)

**) T. angulata laevi, carinata; labio externo valide reflexo, complanato, lato; columella supra callosa, ad basim producta, acuminata. (Sow. l. c.)

fuscis supra et infra carinam ornata; spira brevis, conoidea, acuta; anfr. 5 convexiusculi, rapide accrescentes, ultimus non descendens, basi convexior; columella fusca, brevis, subarcuata, dilatata, basi in angulum subspiniformem terminata, callum emittens circumscriptum, fuscum; apertura diagonalis, late subtriangularis; perist. dilatatum, planum, expansum, intus fuscum, margine supero subrepando, basali substricto. — Operc.? — Diam. maj. $11^1/_2$, min. 9, alt. 6 mill. (Mus. Cuming.)

Helicina bicolor Pfr. in Proc. Zool. Soc. 9 Mart. 1852.

Habitat in insula Tahiti.

136. **H. angulata Sowerby.** 699

T. subdepressa, tenuiuscula, concentrice striata, flavida vel rosea; spira conoidea, apice acutiuscula; sutura leviter impressa; anfr. $4^1/_2$ vix convexiusculi, ultimus acute carinatus, antice non descendens, basi subinflatus, juxta aperturam extus et intus rubro-marginatus; apertura parum obliqua, semiovalis; columella brevis, subrecedens, in angulum dentiformem abiens; perist. album, rectangule patens, tuberculo columellari continuum; callus basalis tenuissimus. — Operc.? — Diam. maj. $10^1/_2$, min. 9, alt. $6^1/_2$ mill. (Coll. Nr. 71.)

Helicina angulata Sow. Thes. N. 60. p. 12. t. 2. f. 61. t. 3. f. 100. *)
— — *Chemn.* ed. II. N. 82. p. 60. t. 2. f. 14. 15.

Habitat in Brasilia (Sowerby, Bescke).

137. **H. Candeana Orbigny.** † 700

T. depressa, laevis; anfr. angulati in medio valde carinati; labium externum expansum, reflexum, in medio subacuminatum, attenuatum; operculum corneum. (Sow.) — Diam. 14—15, alt. 8 mill. (ex ic.)

Helicina Candeana Orb (Moll. Am. Mer. N. 17. ex Sow.)
— — *Sow.* Thes. N. 55. p. 11. t. 3. f. 97. 99. **)

Habitat ad Sinum Hondurasanum. (Sow.)

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*) T. conica, spiraliter striata; anfractibus supra et infra subinflatis, in medio carinatis, labio externo reflexo, rotundato, supra angulum subdepresso; columella subrecta, ad basin angulata; operculo corneo. (Sow. l. c.)

**) This shell resembles *H. Carocolla*, but is smooth, with the outline rather more rounded, the outer lip less expanded, and pointed upwards in the centre. (Sow. l. c.)

701 138. **H. concentrica Pfr.**

T. depresse trochiformis, tenuiuscula, striis longitudinalibus et obliquis sub lente minutissime sculpta, lineis concentricis elevatis utrinque munita, acute carinata, nitidula, carneo-fusca, albido variegata; spira conoidea, subpapillata; anfr. $4^1/_2$ vix convexiusculi, ultimus utrinque convexior; apertura obliqua, subsecuriformis, latior quam alta; columella subrimata, breviter arcuata, basi incrassata in callum album subcircumscriptum retrorsum dilatata; perist. simplex, breviter expansum, margine basali immediate in columellam continuato. — Operc. tenue, castaneum. - Diam. maj. 10, min. 8, alt. vix 6 mill. (Coll. Nr. 72.)

Helicina concentrica Pfr. in Proc. Zool. Soc. 1848 p. 129.
— — *Chemn.* ed. II. N. 83. p. 61. t. 7. f. 28. 29.

β. Spira paulo magis elevata, diam. maj. 9, min. $7^2/_3$, alt. 6 mill. (Mus. Cuming.)

γ. Major, lineis spiralibus elevatis infra carinam obsoletis; diam. maj. $12^1/_2$, min. $10^1/_2$, alt. $7^1/_2$ mill. (Mus. Cuming.)

Helicina concentrica var. Chemn. l. c. t. 8. f. 18. 19.

δ. Major, carina compressiore, perist. subincrassato, ad carinam subrostrato; diam. maj. fere 15, min. $12^1/_2$, alt. 9 mill. (Mus. Cuming.)

Habitat in Venezuela; var. β in Nova Granada (Lattre), var. γ Mirador reipublicae Mexicanae (Galeotti), var. δ Caraccas (Sallé).

702 139. **H. carinata Orbigny.**

T. orbiculato-conoidea, tenuiuscula, concentrice confertim striata et lirata, diaphana, nitidula, citrina; spira conoidea, acuta; anfr. $4^1/_2$ convexiusculi, ultimus medio carinatus, antice non descendens, basi paulo convexior; apertura obliqua, subtriangularis, altior quam lata; columella brevissima, verticalis, basi subnodosa, callum tenuem, circumscriptum retrorsum emittens; perist. album, breviter expansum. — Diam. maj. $7^1/_2$, min. $6^2/_3$, alt. $4^3/_4$ mill. (Mus. Cuming.)

Helicina carinata Orb. Synops. p. 28. *)
— — *Orb.* Voy. Amér. p. 360. t. 46. f. 6—9.
— — *Sow.* Thes. N. 56. p. 11. t. 3. f. 96. (nec t. 2. f. 60.) **)
— — *Chemn.* ed. II. N. 84. p. 62. t. 7. f. 22. 23.

Habitat in provincia Yungasensi reipublicae Bolivianae.

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*) T. orbiculato-conica, depressa, subcrassa, carinata, striata, flava; spira conica, anfr. 5; apertura triangulari; columella angulosa, crassa; labro margine crassiore reflexo. — Alt. 7, lat. 10 mill. (Orb. l. c.)

**) T. forma *H. Candeanae* simili, spiraliter obsolete distanter striata;

140. **H. striatula Potiez & Michaud.** † 703

T. trochiformi-depressa, fulva vel albida, sulcis longitudinalibus, regularibus ornata; anfr. 6 convexi, ultimus carinatus; sutura marginata et crenulata; apertura parva, angulosa, dente in margine columellari posito modificata; perist. albidum, subreflexum; apex obtusus. — Alt. 4, diam. bas. 7 mill. (P. & M.)

Helicina striatula Pot. et *Mich.* Gal. Douai I. p. 229. t. 23. f. 13. 14.

Habitat . . .?

141. **H. Stanleyi Forbes.** †● 704

T. lenticularis, superne inferneque convexa, orbicularis, acute carinata, fusco-carnea, spiraliter striata; spira obtusa; anfr. $4^1/_2$ leviter convexiusculi; basis imperforata, centraliter laevigata, alba; apertura oblique sublunata, angulata; perist. simplex, tenue. — Diam. maj. $6^1/_2$, min. 6, alt. 5 mill. (Forb.)

Helicina Stanleyi Forbes in Voy. Rattlesnake. App. p. 381. t. 3. f. 4.

Habitat „Duchateau Isles“ Archipelagi Louisiadarum (Macgillivray).

142. **H. fulgora Gould.** 705

T. conoidea, tenuis, oblique striatula, carinata, pallide cornea, flammis albidis et rubris superne eleganter variegata; spira convexo-conoidea, acuta; anfr. 5 vix convexiusculi, ultimus peripheria acute et compresse carinatus, basi convexior; apertura parum obliqua, subtriangulari-semiovalis; columella brevis, callum tenuem emittens, rectangule cum perist. tenui, vix expansiusculo juncta. — Operc. pallidum, semiovale. — Diam. maj. 6, min. 5, alt. $3^1/_2$ mill. (Mus. Cuming.)

Helicina fulgora Gould in Proc. Bost. Soc. 1847 p. 201; Exped. shells p. 36. *) Ed. 1851. p. 97. f. 106.

Habitat in insulis Sandwich. Upolu et Manua.

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columella sub-complanata, triangulari; labio externo crasso, rotundato; carina obsoleta, infra carinam centrali; operculo corneo. (Sow. l. c.)

*) T. parva, lenticularis, acute carinata, glabra, dilute castanea, lineolis radiantibus angulato-flexuosis, prope suturam et ad carinam dilatatis, picta: spira depresso-conica, acuta; anfr. 5—6 planatis: apertura lata, semilunaris; peristomate reflexo, flavido, ad basim rectangulari; columella recta, callo modico albido induta. — Lat. $^9/_{40}$, alt. $^5/_{40}$ poll. (Gould l. c.)

706 143. **H. Nicobarica Philippi.**

T. lenticularis, tenuiuscula, laevigata, nitidula, albida vel carnea, fasciis 1—2 angustis rubris plerumque ornata; spira brevis, obtusa; anfr. 4 planiusculi, sensim accrescentes, ultimus acute carinatus, basi convexior, interdum striis elevatis spiralibus obsolete cinctus; apertura subobliqua, obtuse triangularis; columella brevis, obsolete tuberculata; perist. acutum, brevissime expansum; callus basalis nitidus, linea albida circumscriptus. — Operc. tenue, carneum. — Diam. maj. $5\frac{1}{2}$, min. 5, alt. $3\frac{1}{2}$ mill. (Coll. Nr. 73.)

Helicina Nicobarica Phil. in Zeitschr. f. Malak. 1847. p. 149.
— — *Chemn.* ed. II. N. 85. p. 62. t. 2. f. 19—21.

Habitat in insulis Nicobar. (Th. Philippi.)

§. 12.

707 144. **H. Beschei Pfr.**

T. subsemiglobosa, solida, subtilissime striatula, sublaevigata, opaca, citrina unicolor vel fascia 1 sanguinea juxta suturam ornata, vel omnino rubicunda; spira brevis, convexoconoidea, submucronata; anfr. 5 subplani, ultimus ad peripheriam carina 1 acuta, pluribusque obtusioribus munitus, antice non descendens; apertura obliqua, subtriangularis; columella breviter recedens, basi obsolete angulata; perist. expansum, subincrassatum, margine supero strictiusculo, basali subarcuato; callus basalis tenuissimus. — Operc. semiovale, extus nitide rubro-castaneum, intus pallidum. — Diam. maj. 17, min. 14, alt. 10 mill. (Coll. Nr. 74.)

Helicina Beschei Pfr. in Proc. Zool. Soc. 1848. p. 120.
— — *Pfr.* in Zeitschr. f. Malak. 1848. p. 88.
— — *Chemn.* ed. II. N. 87. p. 64. t. 4. f. 1—4.
— *carinata Sow.* Thes. t. 2. f. 60. Nec Orb.

Habitat in Brasilia (Bescke).

708 145. **H. variabilis Wagner.**

T. orbiculato-conoidea, solidula, concentrice striata, nitidula, unicolor flavescens aut fasciis latis purpureis vel violaceis ornata; spira conoidea, acutiuscula; anfr. $5\frac{1}{2}$ subplani, ultimus bicarinatus: carina majore peripherica, altera obtusiore infra illam; apertura integra, semiovalis; columella brevis, retrorsum in callum basalem circumscriptum, album abiens; perist. album,

late expansum, margine dextro depresso. — Operc. immersum, semiovale, nigricanti-castaneum. — Diam. maj. 14, min. 12, alt. 10 mill. (Coll. Nr. 75.)

Helicina variabilis Wagn. in Spix Brasil. p. 25.
— — *Desh.* in Lam. hist. VIII. p. 165. N. 20. *)
— — *Moricand* in Mém. Genève VII. p. 448.
— — *Reeve* Conch. syst. II. t. 186. f. 1.
— — *Chemn.* ed. II. N. 86. p. 63. t. 1. f. 27—30.
— *zonata Sow.* Thes. N. 23. p. 5. t. 2. f. 62—64. **)
— *zephyrina Pot.* et *Mich.* Gal. Douai I. p. 232. t. 23. f. 17. 18?
— *rosea Mühlf.*, *Ant.* Verz. p. 53. N. 1933.

α. Zonata:
Helicina fasciata Spix Bras. t. 16. f. 3. 4.

β. Unicolor:
Helicina flava Spix l. c. f. 5.

Habitat in Brasiliae provincia Paraensi.

146. H. biangulata Pfr. 709

T. subturbinato-depressa, solidiuscula, spiraliter impresso-striata, parum nitida, fulvo-rubella; spira subconvexa, vertice acuminata; anfr. 5 subplani, ultimus peripheria subangulatus, antice angulo secundo instructus, basi convexiusculus, confertius spiraliter striatus; apertura obliqua, semiovalis; columella brevis, extrorsum arcuata, subdentata, callum emittens album, circumscriptum; perist. latiusculum, expansum, album. — Operc.? — Diam. maj. 11, min. 9, alt. 6 mill. (Coll. Nr. 76.)

Helicina biangulata Pfr. in Zeitschr. f. Malak. 1850. p. 192.
— — *Chemn.* ed. II. N. 100. t. 10. f. 34. 35.

Habitat . . .?

147. H. Tilei Pfr. 710

T. conica, solidula, laevigata, opaca, citrina; spira regulariter conica; anfr. 5, summi planulati, ultimus convexus, albo-fasciatus, bicarinatus, basi subplanatus: carina majore infra medium, altera illi approximata; apertura perobliqua, se-

*) T. orbiculato-conoidea, subtus convexa, colore varia, nunc unicolore, nunc transversim fasciata; anfractu ultimo obtuse bicarinato; spira transversim striata; perist. albo, reflexo. (Desh. l. c.)

**) T. conica, sub-rhomboidea, leviter spiraliter costata; anfractibus angulatis, unicarinatis; carina altera plus minusve distincta infra angulum; apertura subquadrata; labio externo expanso, superne depresso in medio attenuato, ad columellam sub-angustato. (Sow. l. c.)

miovalis; columella brevis, basi subtuberculata, superne linea impressa, transversa marginata; perist. subincrassatum, album, reflexiusculum, margine supero sinuoso. — Operc.? — Diam. maj. 9, min. 8, alt. 7 mill. (Coll. Nr. 77.)

Helicina Tilei Pfr. in Zeitschr. f. Malak. 1847. p. 150.
— — *Chemn.* ed. II. N. 88. p. 65. t. 2. f. 4—6.

Habitat in Brasilia (Dr. Tile).

Obs. Affinis *H. variabili* et *Columbianae*, huic statura et forma similior.

711 148. **H. trochlea Gould.** †

T. minuta, trochiformis, supra cinerea, costis acutis volventibus 3 vel 4 (intervallis concavis, scabrosis) cincta, infra convexa, polita, citrina; spirae anfr. 4, ultimus ad peripheriam bicarinatus; apertura subtrigona; perist. leviter reflexum; columella ad basim angulata, callo copioso induta. — Lat. $^{1}/_{8}$, alt. $^{3}/_{40}$ poll. (G.)

Helicina trochlea Gould in Proc. Bost. Soc. 1847. p. 202 *); Exped. shells p. 36. Ed. 1851. p. 99 f. 109.

Habitat in insula Matea.

V. Alcadia Gray.

Operculum non spiratum, solidiusculum, semiovale, bas, processu dentiformi munitum. Testa heliciformis, turbinatai subglobosa vel depressiuscula, plerumque pilosa, basi circa columellam subplanulatam, strictiusculam callosa; apertura triangulari-semiovalis; peristoma magis minusve expansum, incisura distincta, plerumque curvata, a columella sejunctum.

Alcadia Gray 1840. Syn. Brit. Mus. p. 134. Ed. 1842. p. 91. **)
— *Gray* in Proc. Zool. Soc. 1847. p. 182. n. 533.
— *Sow.* Conch. Man. ed. II. p. 61. ***)

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*) It has the size and nearly the form of *H. rupestris Pfr.*, and is distinct from all others by its well-marked, sharp, revolving ribs. (Gould l. c.)

**) *Alcadia* differs in having a slit in front of the mouth, into which is fitted the tooth-like process of the operculum. (Gray l. c.)

***) Helicinae which have a notch in the aperture. A distinction which it is impossible to maintain. (Sow. l. c.)

Helicina Swains. Malacol. p. 337 *) ex parte.
— §. 6 *Pfr.* in Zeitschr. f. Malak. 1848. p. 83.
Helicinae spec. *Auctt.*

1. A. major Gray. 712

T. depresso-globulosa, solida; sublaevigata, minutissime seriatim punctata, nitidula, fusco-rubella vel citrina; spira brevis, conoidea; anfr. vix 5 convexiusculi, ultimus rotundatus; apertura semiovalis; columella basi antrorsum arcuata, incisura distincta, brevi a perist. incrassato, expanso, albo separata; callus basalis crassus, diffusus. — Operc. testaceum, extus concaviusculum, pallidum. — Diam. maj. 22, min. 18, alt. 15 mill. (Coll. Nr. 78.)

Helicina major Gray in Zool. Journ. I. p. 68. t. 6. f. 10. **)
— — *Desh.* in Lam. hist. VIII. p. 162. N. 14.
— — *Sow.* Gen. shells N. 36. f. 1.
— — *Sow.* Conch. Man. f. 306.
— — *Reeve* Conch. syst. II. t. 186. f. 7.
— — *Sow.* Thes. N. 13. p. 4. t. 1. f. 12. 13. ***)
— — *Chemn.* ed. II. N. 28. p. 27. t. 6. f. 1. 2.
Alcadia major Gray in Proc. Zool. Soc. 1847. p. 182.

Habitat in insula Jamaica (Adams).

2. A. hirsuta Adams. † 713

T. depresso-globosa, tenuiuscula, fusco-rubra, striis incrementi levibus sculpta, epidermide fusca hirsuta (pilis longis 6-seriatis) induta; apex obtusiusculus, submucronatus; spira curvilinearis; anfr. fere 5, subplanulati; apertura majuscula, semielliptica; labrum tenuiusculum, acutum, valde reflexum, postice canalem formans; incisura non valde profunda, sed lata. — Diverg. media 110°; lat. max. 0,59; lat. min. 0,48; alt. 0,4 poll. (Ad.)

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*) Heliciform; aperture with an open slit, or narrow fissure at the base. Types: *H. major Gray, H. submarginata Gray.* (Swains. l. c.)

**) T. depresso-ovata subglobosa, fuscescens, laevis; spira convexa; subtus convexiuscula, pallida; perist. incrassato, albo, reflexo; angulo columellari obtuse emarginato; labiis incrassatis, pallidis. — Axis $^1/_2$, diam. $^3/_4$ poll. (Gray l. c.)

***) T. globosa, laevi, subtenui; anfractu ultimo magno; apertura semilunari; labio externo reflexo, expanso; prope columellam valde emarginato; labio interno subtus leviter calloso; columella parva; operculo calcareo. (Sow. l. c.)

Helicina hirsuta Adams in Ann. Lyc. N.-York V. p. 49; et Contrib. to Conch. N. 8. p. 133. *)

Habitat in insula Jamaica.

714 3. **A. consanguinea Adams.** †

T. subglobosa, crassiuscula, striis incrementi distinctis notata, epidermide subhirsuta induta, saturate rufa; spira curvilinearis, apice obtusa; anfr. 5 modice convexi; apertura semiorbicularis; labrum superne sinuosum, modice incrassatum, acutum, praeter extremitates bene reflexum; incisura lata et brevis. — Diverg. media 110°; lat. max. 0,6; lat. min. 0,5; alt. 0,45 poll. (Ad.)

Helicina consanguinea Adams in Ann. Lyc. N.-Y. V. N. 2. p. 50; Contr. to Conch. N. 8. p. 134. **)

Habitat Westmoreland insulae Jamaicae.

715 4. **A. microstoma Adams.** †

T. globoso-conica, crassiuscula, striis incrementi levibus seriebusque paucis spiralibus punctorum notata, fusca, juxta suturam et ad peripheriam pallida; apex obtusus; spira magis minusve, haud uniformiter, curvilinearis; anfr. vix 5 modice convexi, ultimus subtus subplanulatus; apertura semielliptica, superne et inferne compressa, lateraliter dilatata; labrum sinuatum, bene expansum et praeter extremitates reflexum; incisura

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*) Shell depressed globose, rather thin: brownish red, with an hirsute brown epidermis, having long hairs in six spiral lines, of which one is next below the suture and the others are on the middle and lower parts of the last whorl: with the striae of growth lightly impressed: apex rather obtuse, slightly mucronate: spire with the outlines much curved: whorls nearly five, slightly planulate, with a well impressed suture: aperture rather large, semielliptical; lip rather thin and sharp, but well reflected so as to form a canal behind; with the slit not very deep, but wide. — The slit has about the same proportions as in *H. Hollandi*, having less depth and a greater width than in *H. pallida* and *H. Brownii*. Except in its greater size, it very closely resembles the former species, which however wants the spiral lines of long hairs in the epidermis. The operculum of this species is much smoother. (Adams l. c.)

) Shell subglobose, moderately thick: dark brownish red, with the lip white; with a somewhat hirsute epidermis, having the projecting points spirally arranged: with the striae of growth quite distinct: apex obtuse: spire with the outlines much curved: whorls five, moderately convex, with a well impressed suture: aperture semiorbicul[illegible]; lip sinuous above, moderately thickened and sharp, but well reflected except at the extremities; with the slit broad and shallow. In most characters the species is intermediate between ***H. hirsuta* and ***albolabris***. (Adams l. c.)

latiuscula, parum profunda. — Diverg. media 60°; lat. max. 0,65; lat. min. 0,52; alt. 0,4 poll. (Ad.)

Helicina microstoma Adams in Ann. Lyc. N.-York V. N. 2. p. 51 et Contr. to Conchol. N. 8. p. 135. *)

Habitat in insula Jamaica.

5. A. Gossei Pfr. 716

T. depresso-globosa, solida, pustulis seriatis subasperata, nitidula, fuscidulo-rubra; spira convexa; anfr. 4½ parum convexi, ultimus rotundatus; apertura triangulari-semiovalis, intus carnea, nitida; columella basi truncata, retrorsum in callum crassum carneum abiens; perist. subincrassatum, expansum, juxta columellam vix incisum. — Operc.? — Diam. maj. 19, min. 15½, alt. 13½ mill. (Mus. Cuming.)

Helicina Gossei Pfr. in Proc. Zool. Soc. 1848. p. 122.
— — *Chemn.* ed. II. N. 29. p. 28. t. 6. f. 11. 12.

Habitat in insula Jamaica (Gosse).

Obs. Differt ab *A. majore* forma magis rotundata (ratione diametrum et altitudinis), epidermide pustulosa, basi columellae a peristomate emarginatione levi separata.

6. A. palliata Adams. 717

T. globoso-conoidea, solida, fusco-rubra, epidermide dense brevipilosa induta; spira conoidea, acutiuscula; anfr. 5½ vix convexiusculi, ultimus antice deflexus; apertura diagonalis, triangulari-semiovalis; columella brevis, in dentem antrorsum arcuatum desinens, fissura profunda, angusta, strictiuscula a perist. subincrassato, carneo, expanso separata; callus basalis semicircularis, medio crassus, aurantiacus. — Operc. immersum, solidum, semiovale, opalinum. — Diam. maj. 15½, min. 13, alt. 11½ mill. (Coll. Nr. 79.)

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*) Shell globose conic, moderately thickened: brown, shaded off to a smoky white along the suture and on the periphery of the last whorl: with rather light striae of growth, in which are a few spiral series of punctures: apex obtuse: spire with the outlines more or less and not uniformly curvilinear: whorls rather less than five, moderately convex, with a well impressed suture; last whorl subplanulate beneath: aperture semi-elliptical, compressed above and below, laterally dilated; with the lip sinuate, well expanded and reflected except at the extremities; with the slit not very deep, rather wide. — The slit is about as deep as in *H. consanguinea*, but the sides are less divergent. — In form it approches more nearly to *H. ampliata* and *H. Jamaicensis*, than any of the group. (Adams l. c.)

Helicina palliata Adams Contrib. to Conch. N. 1. p. 13.*)
β. Peristomate extus intusque perincrassato.
Helicina palliata var. labiosa Adams Contr. N. 8. p. 134.

Habitat in insula Jamaica.

718 7. **A. Brownei Gray.**

T. depresso-conoidea, tenuiuscula, striatula, nitidula, diaphana, fusca; spira late conoidea, acutiuscula; anfr. sub-5 vix convexiusculi, ultimus antice paululum descendens, basi subplanulatus; apertura obliqua, triangulari-semiovalis; columella brevis, in dentem antrorsum arcuatum desinens, fissura profunda, latiuscula, arcuata a perist. albo, subincrassato, expanso separata; callus basalis semicircularis, medio crassus, albus. — Operc. subcorneum. — Diam. maj. 13, min. $11^2/_3$, alt. 9 mill. (Coll. Nr. 80.)

Helicina Brownii Gray in Zool. Journ. I. p. 69. t. 6. f. 13. **)
— — *Desh.* in Lam. hist. VIII. p. 163. N. 17.
— — *Sow.* Thes. N. 14. p. 4. t. 1. f. 7. 8. ***)
— — *Chemn.* ed. II. N. 30. p. 28. t. 3. f. 17. 18.
Helix Brownii Wood Ind. Suppl. t. 8. f. 63.
Browne Jamaic. t. 40. f. 1. Cochlea n. 11.
β. Testa lutea:
Helicina Brownii var. Chemn. l. c. t. 6. f. 21. 22.

Habitat in insula Jamaica.

719 8. **A. citrinolabris Adams.**

T. depresso-globosa, solida, striatula, rubra, epidermide minute pilosa induta; spira late conoidea, acutiuscula; anfr. 5 parum convexi, ultimus vix descendens, basi convexiusculus; apertura perobliqua, semiovalis; columella brevis, in denticulum

*) Species similar to *H. Brownii Gray*, but the shell is larger, thicker, less globose, with the incision as deep but much narrower and linear; the produced columella is grooved with a broad shallow furrow, while in *H. Brownii* it has a deeply impressed line. — The form and size are intermediate between *H. maxima* and *H. Brownii*. (Adams l. c.)

**) T. depresso-ovata, pallide fusca, laevis, pellucida, supra convexa, subtus convexiuscula; perist. incrassato, reflexo, albo; columella labiisque subincrassatis, albidis, aperturae angulo columellari fisso; operc. antice appendiculato, corneo. (Gray l. c.)

***) T. globosa, tenui, anfractu ultimo magno; apertura semilunari; labio externo reflexo, paululum expanso; prope columellam incisura elongata; labio interno prope columellam subcalloso; columella obliqua, acuta. (Sow. l. c.)

obtusum, extrorsum prominentem terminata, retrorsum in callum latum, semicircularem abiens; perist. incrassatum, reflexum, luteum, margine supero sinuoso, basali incisura brevi a columella separato. — Operc.? — Diam. maj. 16, min. 13, alt. $10\frac{1}{2}$ mill. (Mus. Cuming.)

Helicina citrinolabris Adams Contrib. to Conch. N. 1. p. 14. *)
β. Minor, testa minus depressa, peristomate albo. (Coll. N. 81.)
Helicina albolabris Adams Contrib. to Conch. N. 1. p. 13. **)

Habitat in insula Jamaica.

9. A. Hollandi Adams. 720

T. globoso-conoidea, tenuiuscula, saturate castanea, subdecussata, sub lente pustulosa; spira late conoidea, acutiuscula; anfr. 5 parum convexi, celeriter accrescentes, ultimus antice subdescendens; apertura diagonalis, triangulari-semilunaris; columella brevis, in dentem antrorsum arcuatum desinens, fissura brevi a perist. simplice, acuto, expanso separata; callus basalis semicircularis, nitidus. - Operc. solidum, semiovale, basi acute angulatum, cinerascens. — Diam. maj. 12, min. 10, alt. $8\frac{1}{2}$ mill. (Coll. Nr. 82.)

Helicina Hollandi Adams Contrib. to Conch. N. 1. p. 13. ***)
— — *Chemn.* ed. II. t. 10. f. 18—20.

Habitat in insula Jamaica.

10. A. succinea Pfr. 721

T. orbiculato-conoidea, tenuis, sub lente granulata, pellucida, nitida, rubello-succinea, seriebus pilorum nigrorum (praeter anfr. ultimum obsoletis) munita; spira breviter conoidea, acu-

*) Shell brown or lemon yellow, very solid, outer lip very thick and always lemon yellow; in other characters like *H. albolabris*, of which it may possibly be a variety with a greater divergence. The epidermis is very finely but not densely hirsute. — Mean divergence 123°; length 0,39; greatest breadth 0,67; least breadth 0,53 inch. (Adams l. c.)

**) Shell with a notch like that of *H. maxima*, but the notch is rather large proportionally; in other respects similar to *H. Brownii*, but the whorls are less convex, and the last one much depressed, and the shell more solid, with a greater divergence. — Mean divergence 110°; length 0,39; greatest breadth 0,64; least breadth 0,5 inch. (Adams l. c.)

***) Species similar to *H. Brownii*, but the shell is much smaller and thinner; it is chiefly distinguished by the incision being only half as deep, and by the produced columella, which has no impressed line nor groove, although slightly raised at the margins. — Mean divergence 105°; length 0,23; greatest breadth 0,41; least breadth 0,32 inch. (Adams l. c.)

tiuscula; anfr. fere 5 parum convexi, ultimus magnus, vix descendens; apertura parum obliqua, semiovalis; columella brevissima, verticalis, basi denticulum acutum formans, callum emittens tenuem, granulosum; perist. tenue, breviter expansum, margine supero repando, basali ad columellam emarginato. — Operc. solidum, testaceum, rubellum. — Diam. maj. 8, min. 6½, alt. 5⅓ mill. (Coll. N. 83.)

Helicina succinea Pfr. in Zeitschr. f. Malak. 1850. p. 76.
— — *Chemn.* ed. II. N. 97. t. 10. f. 15—17.

Habitat in insula Haiti (Sallé).

722 11. **A. solitaria Adams.**

T. depressa, tenuiuscula, sub lente subtilissime granulata, diaphana, straminea vel albida, infra suturam fulvo-unifasciata; spira brevis, convexa; anfr. 4—4½ vix convexiusculi, ultimus subdepressus, basi vix convexior; apertura obliqua, subtriangulari-semiovalis; columella brevis, excavata, antrorsum in denticulum desinens, retrorsum in callum tenuem, semicircularem, flavescentem expansa; perist. tenue, breviter reflexum, margine supero repando, basali incisura levi a columella separato. — Operc.? — Diam. maj. 8—9, min. 6½—7½, alt. 4½—5 mill. (Coll. Nr. 84.)

Helicina solitaria Adams in Proc. Bost. Soc. 1845. p. 12. *)
— *Guildingiana Pfr.* in Zeitschr. f. Malak. 1848. p. 87.
— — *Chemn.* ed. II. N. 31. p. 29. t. 4. f. 37—39.

Habitat in insula Jamaica.

723 12. **A. dubiosa Adams.**

T. depressa, tenuiuscula, subtilissime striata, nitida, rubella; spira vix conoideo-elevata; anfr. 4 vix convexiusculi, ultimus basi subplanatus; apertura obliqua, semiovalis; columella subplanata, triangularis, vix recedens, callum retrorsum emittens crassiusculum; perist. subincrassatum, album, expansiusculum. — Diam. maj. 8, min. 7, alt. 5 mill. (Mus. Cuming.)

Helicina dubiosa Adams Contrib. to Conchol. N. 6. p. 93. **)

β. Spira minus elevata, columella distincte incisa:

Helicina dubiosa var. intermedia Adams ibid. p. 94.

Habitat in insula Jamaica.

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*) T. depressa, rubra, fuscescente; anfr. 4½ laevibus, ultimo nunquam angulato; apertura semicirculari; labio infra emarginato; columella acuta; labro subtenui, extra flavo; operculo tenui. — Diverg. 115°; alt. 0,22; lat. max. 0,35; lat. min. 0,31 poll. (Adams l. c.)

**) Shell globose-conic: shining, reddish brown, with the lip and callus

13. **A. megastoma Adams.** 724

T. depresso-globosa, (sub epidermide fasciatim interrupta velutina) laevigata, nitida, fuscula; spira depresso-conoidea; anfr. $4\frac{1}{2}$ parum convexi, ultimus magnus, basi convexus; apertura parum obliqua, semicircularis; columella breviter recedens, desinens in tuberculum exiguum, incisura levi a peristomate separatum; callus basalis tenuis; perist. subincrassatum, breviter expansum, album. — Operc. solidiusculum, pallidum. — Diam. maj. 8, min. $6\frac{1}{2}$, alt. 5 mill. (Coll. Nr. 85.)

Helicina megastoma Adams Contrib. to Conch. N. 1. p. 14. *)

β. Testa tenuiore, pellucida, epidermide distinctiore:

Helicina affinis Adams in Proc. Bost. Soc. II. 1846. p. 102. **)

Habitat in insula Jamaica.

14. **A. macilenta Adams.** 725

T. depressa, subdiscoidea, tenuis, subtilissime punctulato-striata, pallide fuscula; spira parum elevata, vix acuminata; anfr. $4\frac{1}{2}$ vix convexiusculi, ultimus latior, basi planiusculus; apertura diagonalis, subsemicircularis; columella brevis, in denticulum antrorsum curvatum, extus incrassatum desinens, fissura angusta, profunda, arcuata a perist. simplice, breviter expanso separata; callus basalis tenuis. — Operc.? — Diam. maj. $7\frac{1}{3}$, min. 6, alt. $3\frac{3}{4}$ mill. (Mus. Cuming.)

Helicina macilenta Adams Contrib. to Conch. N. 1. p. 13. ***)

Habitat in insula Jamaica.

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yellowish-white: with excessively fine striae of growth, and very lightly impressed microscopic spiral striae: apex subacute: spire well elevated, with the outlines rather convex: whorls four and one-half, rather convex, with a well impressed suture: aperture rather large, semicircular, with the notch at the base of the columella scarcely perceptible or wanting; labrum moderately reflected and thickened. Mean divergence about 120°; height 0,2; greatest breadth 0,285; least breadth 0,24 inch. — Var. *intermedia:* with a very small, but distinct obtuse notch; the spire is less elevated, and the shell is larger and thinner. It is intermediate between the type of the species and *H. solitaria.* Heigth 0,24; greatest breadth 0,34; least breadth 0,29 inch. (Adams l. c.)

*) Shell globose conic, smooth and shining, rather thick, yellowish brown; spire with very convex outlines; whorls four and one-half, a little flattened; last whorl very large and high, with corresponding size of the aperture, which is quite exactly semicircular; labrum moderately reflected and thickened; columella and adjacent part of the last whorl bent into the plane of the aperture; the columella is produced into a very minute tubercle. — Mean divergence 108°; length 0,2; greatest breadth 0,33; least breadth 0,25 inch. (Adams l. c.)

**) *H. solitariae nob.* affinis, sed testa spira conica haud convexa, instructa; labro reflexo, infra angulato, haud scisso. — Jamaica. (Adams l. c.)

***) Shell rather small and thin, subdiscoidal, flattened beneath; pale

726 15. **A. hispida Pfr.**

T. globuloso-depressa, tenuis, rufa, pilis brevibus confertis hispida; spira vix elevata, subacuminata; anfr. $4^1/_2$ convexiusculi, sensim accrescentes, ultimus basi convexiusculus; apertura parum obliqua, semiovalis; columella brevissima, basi in dentem recurvatum, liberum terminata; perist. subsimplex, vix expansiusculum, intus album, margine supero sinuoso, basali a dente columellari incisura acuta separato; callus basalis tenuissimus. — Operc. submembranaceum, corneum. — Diam. maj. 6, min. $5^1/_4$, alt. 4 mill. (Coll. Nr. 86.)

Helicina hispida Pfr. in Wiegm. Arch. f. Naturg. 1839. I. p. 355.
— — *Sow.* Thes. N. 16. p. 4. t. 3. f. 112. 113. *)
— — *Chemn.* ed. II. N. 32. p. 30. t. 3. f. 19—23.
— *dentigera Orb.* Moll. Cub. I. p. 252. t. 21. f. 4—6. **)
— — *Sow.* Thes. N. 15. p. 4. t. 3. f. 107. 108. ***)

Habitat in insula Cuba, frequentissima circa Matanzas!

727 16. **A. minima Orbigny.**

T. depressa, striatula, pilis brevissimis deciduis hispidula, fusco-rubella; spira brevis, conoidea; anfr. $4^1/_2$ vix convexiusculi, sensim accrescentes, ultimus subdepressus, basi subplanus; apertura obliqua, semiovalis; columella brevis, subverticalis, basi in dentem brevem, obtusum terminata; perist. simplex, vix expansiusculum, margine basali substricto, a dente columellari incisura levi separato; callus basalis tenuissimus. —

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brown; epidermis extremely thin, microscopically hirsute or chagrined; spire a little elevated and convex; whorls nearly four and one-half, scarcely convex; aperture large; labrum thin, sharp, moderately expanded and reflected, with a deep curved incision below the columella similar to that of *H. palliata;* the produced columella is strongly margined on the inner side. — Mean divergence about 135°; length 0,16; greatest breadth 0,29; least breadth 0,23 inch. (Adams l. c.)

*) T. globuloso-depressa, tenui, rufa, hispida; anfr. 4 convexiusculis; callo columellari tenui; angulo columellari dentem efformante; labro crassiusculo, juxta dextram acute inciso; apertura semilunari. (Sow. l. c.)

**) T. rotundo-depressa, laevigata, alba, fascia cincta; spira brevi, obtusa, inflata; anfr. 5 planis; apertura semilunari; labro crasso, reflexo; columella incrassata; aperturae angulo columellari dentato, emarginato. — Diam. 7, alt. 5 mill. — Cette espèce assez voisine de *l'H. rotunda*, s'en distingue par sa spire moins élevée, plus obtuse, par son péristome plus réfléchi et par la forte dent de la partie columellaire. (Orb. l. c.)

***) T. globosa sub-depressa, alba, labio externo paululum reflexo prope columellam emarginato; labio interno tenui; columella producta, acuta, dentem efformante. (Sow. l. c.)

Operc. submembranaceum, corneum. — Diam. maj. $4^3/_4$, min. 4, alt. $3^1/_3$ mill. (Coll. Nr. 87.)

Helicina minima Orb. Moll. Cub. I. p. 253. t. 21. f. 7—9. *)
— — *Sow.* Thes. N. 17. p. 5. t. 3. f. 119. **)
— — *Chemn.* ed. II. N. 33. p. 30. t. 3. f. 23—25.

Habitat in insula Cuba!

17. **A. pusilla Adams.** † 728

T. depresso-globularis, fusculo-cornea, striis incrementi minutissimis notata; apex subacutus; spira modice elevata, curvilinearis; anfr. 4 convexiusculi; apertura majuscula, latere dextro rotundata, sinistro subsinuata; labrum tenue, modice dilatatum, reflexum, incisione profunda, curvata a columella basi falciformi separata. Operc.? — Diverg. media 120°; alt. 0,16; lat. max. 0,25; lat. min. 0,2 poll. (Ad.)

Helicina pusilla Adams Contrib. to Conch. N. 7. p. 101. ***)

Habitat in insula Jamaica.

Helicinacea ex icone solum mihi nota.

Helicina albocincta Hombr. & Jacq. Voy. Pol Sud. Moll. t. 11. f. 36—39. (Ins. Arrow.)
— *albolabris H. & J.* ibid. t. 11. f. 23—26. (Taiti.)

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*) T. rotundo-depressa, laevigata, roseo-alba; spira brevi; anfr. 5 convexo-planis; apertura semilunari; labro tenui, reflexo; columella minime incrassata; aperturae angulo columellari dentato, emarginato. — Diam. $3^1/_2$, alt. $2^1/_2$ mill. — Cette coquille nous représente en petit la forme de *l'H. dentigera*, elle en a l'élévation et la bouche; néanmoins, indépendamment de sa taille, de moitié moindre à l'état parfait, elle s'en distingue encore par ses tours de spire un peu convexes, par sa dent moins saillante, par son encroûtement restreint et par le manque de dépression autour du péristome. (Orb. l. c.)

**) T. minuta, *H. dentigerae* simili, emarginatione minus valida. (Sow. l. c.)

***) Shell depressed globular: horn color for brownish (?): with excessively fine striae of growth: apex subacute: spire moderately elevated, with the outlines curvilinear: whorls more than four, a little convex, with a distinct suture: aperture rather large, well rounded in the right side, somewhat sinuate in the left side; labrum thin, moderately dilated, well reflected, with a deep curved incision, similar to that of *H. palliata*, and next the columella, the end of which is sickle-shaped. This species is much less discoidal than *H. macilenta.* (Adams l. c.)

Helicina exigua H. & J. ibid. t. 11. f. 32—35. (Mangareva.)
— *humilis H. & J.* ibid. t. 11. f. 27—31. (Hogoleu.)
— *livida H. & J.* ibid. t. 11. f. 40—44. (Ins. Salomon.)
— *pisum H. & J.* ibid. t. 11. f. 18—22. (Taiti.)
— *Sandwichensis Souleyet* in Voy. Bonite Moll. t. 30. f. 1—5.

Nomine tantum nota.

Helicina Mighelsii Adams, Jay catal. 1850. p. 262.
— *vittata Gould,* Jay ibid. p. 262.

Fossilis.

? *Helicina striata Defr.* 1820.

Excludantur e familia Helicinaceorum.

Helicina

compressa Sow. foss. = Rotella.
dubia Lam. foss. = Pitonillus.
expansa Sow. foss. = Rotella.
exumbilicata Spix = Ampullaria crassa.
linguifera Jonas = Proserpina.
polita Sow. foss. = Pleurotomaria.
ptychostoma Pfr. = Proserpina.
pyramidella Spix = Helix bifasciata.
solarioides Sow. foss. = Rotella expansa.

Addenda et Corrigenda.

p. 7. De animale Geomelaniae conf. *Arth. Adams* in Proc. Zool. Soc. 1849. p. 169.

p. 7. *Geomelania Jamaicensis Petit* in Journ. Conch. 1851. I. t. 2. f. 4.

p. 31. *Cyclost. volvuloides Sow.* t. 31 B. f. 312. 313. (non 314.)

p. 31. *Cyclostoma aratum Bens.* (Ann. and Mag. VIII. p. 190) tamquam synonymum subjungatur *Cycloto subdiscoideo Sow.* (N. 53.)

p. 40. *Cyclotus Taylorianus Pfr.* Synon.: *C. Charbonnieri Récl.* in Journ. Conch. 1851. II. p. 214. t. 5. f. 12. 13.

p. 43. *Pterocyclos planorbulus Lam.* — *Desh.* Traité élém. t. 82. f. 3. 4.

p. 47. *Pterocyclos nanus Bens.* (Ann. and Mag. 1851. VIII. p. 450), *Chemn.* ed. II. Cyclost. t. 49. f. 31—33.

p. 52. *Cyclostoma Lyonnetianum* (Hygrobium) *Lowe* in Ann. and Mag. IX. Apr. 1852, et Synops. diagn. p. 15. N. 70.

p. 52. l. 14, adde:

3. Cr. costatum Shuttleworth. † 89a.

T. rimato-subperforata, globoso-conica, tenuis, pulcherrime costata, costis lamelliformibus, in anfr. ultimo versus aperturam evanidis, fusco-cornea; spira acuta; anfr. 5 convexi, ultimus basi inflatus; sutura profunda; apertura circularis; perist. duplex: externum tenue, membranaceum, internum paululum recedens, albo-incrassatum. — Operc. membranaceum, pallidum, arctispirum, subtus lamina prominente in aperturam intrante auctum, aperturam superficialiter claudens. — Diam. 4, alt. 4 mill. (Sh.)

Cyclostoma (Craspedopoma) *costatum Shuttl.* Diagn. n. Moll. N. 1. p. 11.

Habitat in insula Palma (Blauner).

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p. 53. *Aulopoma Itieri β*, adde: *Cyclostoma Hoffmeisteri Bens.* in Ann. and Mag. 2d. ser. VII. p. 265 (cum descript. animalis).

p. 58. *C. Pearsoni Bens.* l. c. p. 185; *Chemn.* ed. II. N. 411. t. 49. f. 34—36.

p. 62. *Cyclostoma pernobilis Gould* in Proc Bost. Soc. T. 1843. p. 140.

p. 65. *Cyclostoma porphyriticum Bens.* l. c. p. 187; *Chemn.* ed. II. N. 415. t. 50. f. 22—24.

p. 66. *Cyclostoma Cantori Bens.* l. c. p. 186; *Chemn.* ed. II. N. 414. t. 50. f. 4—6; var. f. 7. 8.

p. 70. *Cyclophorus stenomphalus Pfr.* — Var.: *C. Aurora Bens.* in Ann. and Mag. 1851. VIII. p. 186; *Pfr.* in Chemn. ed. II. t. 50. f. 11—13.

p. 71. *Cyclostoma Jerdoni Bens.* l. c. p. 185; *Chemn.* ed. II. N. 413. t. 50. f. 1—3.

p. 72. *Cyclophorus Aurora Bens.* deleatur et subjungatur *C. stenomphalo.*

p. 82. post lin. 20 adde:

140a. 48a. **C. Wahlbergi Benson.**

T. mediocriter umbilicata, depresso-conoidea, tenuis, scabra, capillaceo-striata, haud nitida, virenti-cornea; spira breviter conoidea, obtusula; sutura profunda, simplex; anfr. 4 convexi, celeriter accrescentes, ultimus non descendens; apertura obliqua, ovali-rotunda, intus submargaritacea; perist. simplex, rectum, acutum, marginibus approximatis, dextro perarcuato. — Operc. tenuissimum, arctispirum, corneo-lutescens, extus concaviusculum. — Diam. maj. 15, min. 12, alt. 8 mill. Ap. 8 mill. longa, vix 7 lata. (Mus. Benson.)

Cyclostoma Wahlbergi Benson mss.
— — *Chemn.* ed. II. N. 418. t. 50. f. 17—19.

Habitat Natal.

Obs. Species *Cycloto translucido* et *Cyclophoro lutescenti* persimilis; antea deficiente operculi cognitione cum priore confusa. Conf. Krauss südafr. Moll. p. 83.

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p. 83. *Cyclostoma coeloconus Bens.* l. c. p. 189; *Chemn.* ed. II. N. 416. t. 50. f. 9. 10.

p. 87. post lin. 16 adde: ? *Helix oculus capri Linn.* Syst. ed. X. p. 768. N. 573; Mus. Lud. Ulr. p. 664. N. 363 („H. testa subcarinata, umbilicata, convexa, apertura marginata. — Rumph. Mus. t. 27. f. O. — Testa convexa, albida, glabra, medio fusca. Spira elevata, obtusiuscula, testacea. Apertura orbiculata, alba ore reflexo flavo, margine superiore elongato. Umbilicus apertus pervius ad fundum spiris manifestis.“) — *Linn.* Syst. ed. XII. p. 1242. N. 657. (Argenv. Conch. t. 11. f. F.) — *Schröt.* Einl. II. p. 125. N. 3. — *Gmel.* Syst. p. 3615. N. 6.

p. 99. *Cyclostoma ravidum Bens.* l. c. p. 190; *Chemn.* ed. II. N. 417. t. 50. f. 14—16.

p. 100. *Cyclost. Phaenotopicum Bens.* l. c. p. 190; *Chemn.* ed. II. N. 419. t. 50. f. 20. 21. — Addatur descriptioni: peristomate expansiusculo, subreflexo, superne subduplicato, lamella exteriori subangulata. — Diam. maj. 13, min. 10, axis $5\frac{1}{2}$ mill." (Bens. in litt.)

p. 103. *Cyclostoma concinnum Chenu* Ill. conch. t. 1. f. 18.

p. 121. *Cyclost. constrictum Bens.* l. c. p. 188; *Chemn.* ed. II. N. 408. t. 49. f. 26—28. — Addatur descriptioni: „callo suturali retroverso (ut in *C. strangulato)* pone constrictionem posito." (Bens. in litt.)

p. 124. *Cyclost. flavula Chenu* Ill. conch. t. 1. f. 17.

p. 126. *Cyclost. torta Chenu* Ill. conch. t. 1. f. 16.

p. 128. *Cyclost. ventricosa Chenu* Ill. conch. t. 1. f. 15.

p. 135. *Cyclost. pauperculum Sow., Chemn.* ed. II. N. 412. t. 49. f. 37. 38.

p. 154. *Choanopoma mactum Poey* 1851. — *Cyclost. majusculum Morelet* Test. nov. II. p. 19. N. 129. („T. umbilicata, ovato-conoidea, crassa, decollata, regulariter clathratula, sculptura in ultimo anfractu obsoletiore, ochracea, vel violacescens, nunc unicolor, nunc fasciis et maculis seriatim transversis, angulatis vel corniculatis, eleganter picturata. Sutura crenulata; anfr. 4 convexiusculi, ultimo inflato; apertura pyriformis, intus aurantiaca vel fulva, rarius caerulescens. Peristoma pallidum, crassum, plane expansum, breviter reflexum. — Long. 33, diam. 16. — In montibus Guajaibon Cubae.")

p. 155. *Cyclost. decussata Chenu* l. c. t. 1. f. 6.

p. 164. *Cyclost. ambigua (Deless.) Chenu* l. c. t. 1. f. 5.

p. 185. *Cyclostoma Listeri Sow.* in Proc. Zool. Soc. 1843. p. 31. — *C. fimbriata Chenu* l. c. t. 1. f 12.

p. 201. *Cyclost. sulcata (Lam.) Chenu* l. c. t. 1. f. 9.

p. 202. *Cyclost. rugosa (Lam.) Chenu* l. c. t. 1. f. 7.

p. 205. *Cyclost. trochlea Bens.* l. c. p. 189; *Chemn.* ed. II. N. 401. t. 49. f. 29. 30.

p. 210. *Cyclost. obsoleta (Lam.) Chenu* l. c. t. 1. f. 11.

p. 221. *Cyclost. filocinctum Bens.* l. c. p. 188; *Chemn.* ed. II. N. 409. t. 49. f. 26—28.

p. 245. *Cyclost. ferruginea Chenu* l. c. t. 1. f. 4.

p. 249. *Cyclost. quaternata Chenu* l. c. t. 1. f. 3.

p. 264 addatur:

6a. **Cistula Riisei Pfr.** -430 a.

T. subperforata, oblongo-turrita, tenuis, costis longitudinalibus chordaeformibus aequalibus, confertis sculpta, diaphana,

pallide cornea, lineis rufis interruptis interdum cincta; spira plerumque integra, obtusula; sutura confertissime serrulata; anfr. 7 convexiusculi, ultimus non solutus, basi liris paucis spiralibus notatus; apertura verticalis, elliptico-ovalis, intus nitida; peristoma continuum, simplex, undique breviter expansum, superne in auriculam angulatam productum. — Operc. typicum. — Long. 17, diam. 7 mill. Ap. 6 mill. longa, $4^2/_3$ lata. (Coll. Nr. $189^1/_2$.)

Cyclostoma Riisei Pfr. mss.

Habitat in insula Portorico (Riise).

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p. 270. *Cyclostoma lineolata Chenu* l. c. t. 1. f. 8.
p. 271. *Cyclost. interrupta (Deless.) Chenu* l. c. t. 1. f. 2.

p. 271 addatur:

445 a. 21 a. **Cistula? rigidula Morelet.** †

T. turrita, plerumque truncata, lamelloso-costulata, scabra, corneo-grisea, fasciis 4—5 rubigineis interruptis circumornata; spira conico-turrita, apice laeviusculo; anfr. $7^1/_2$ convexi, sutura profunda discreti, ultimus solutus, deorsum plus minusve protractus; apertura oblonga, intus concolor; perist. duplex, margine externo lamelloso, patente, dextrorsum superne in angulum concavum producto. — Long. testae integrae 12, diam. 5 mill. (Mor.)

Cyclostoma rigidulum Morelet Testac. noviss. II. p. 18. Nr. 126.

Habitat rupestria prov. Vera Paz Guatemalae.

Obs. „Testa magnitudine pervariabilis."

p. 282 addatur:

466 a. 8 a. **Chondropoma? vespertinum Morelet.** †

T. umbilicata, oblongo-conica, saepius truncata, tenuis, strigis exilibus incrementi et costulis spiralibus decussata, rufescens vel albido-fulva, fasciis et vittis punctiformibus vel integris irregulariter picta; sutura denticulata, basi canaliculata; anfr. 7 convexi, ultimus ventriculosus, brevissime solutus; apertura angulato-ovalis, intus nitida, fasciolata; perist. liberum, simplex, marginibus vix expansiusculis. — Long. testae integrae 21, diam. 9 mill. (Mor.)

Cyclostoma vespertinum Morelet Test. noviss. II. p. 19. N. 128.

Habitat ruinas Palenqueanas in sylvis prope Chiapa jacentes.

Obs. „Differt a *C. Sagra Orb.* sculptura eminentiore, sutura denticulata, peristomate tenui, non reflexo, etc."

p. 283. l. 18 lege *Cyclost. simplex Chemn.* ed. II. N. 393. (Nec 390.)

p. 286. *Cyclost. semilabris (Lam.) Chenu* l. c. t. 1. f. 1.

p. 296. *Chondropoma Ottonis β.* Synon.: *Cyclost. petricosum Morelet* Test. noviss. II. p. 19. N. 130? („T. obtecte umbilicata, ovato-conoidea, tenuis, confertissime granulato-striata, corneo-grisea vel fulvescens, lineolis pallide rubigineis subinterruptis multifasciata; anfr. 4 convexi, ultimo ventricoso, basi spiraliter striato. Apertura regulariter ovalis, intus callo nitide albo limbata; perist. lamellosum, expansum, fimbriatulum, margine dextro sursum breviter producto, semiplicato, canaliculato; columellari emarginato, angulatim plicato, appresso, cum altero callo diffuso, lamelloso, umbilicum tegente, juncto. — Long. 14, diam. 7 mill. — Hab. ripas fluvii Almendares, 9 millibus a civitate Habanensi distantis.")

p. 296 addatur:

34. Chondropoma? semicanum Morelet. † 491 a.

T. obtecte umbilicata, ventriculoso-conoidea, solidula, albida, apicem versus erosum pallide fulvescens, rugis confertissime crispis et sulcis decurrentibus latioribus aspera; anfr. 4 convexi, sutura profunda discreti, ultimus ventriculosus, basi spiraliter distinctius rugatus; apertura circularis, intus nitida, alba; perist. subduplex, margine externo breviter expanso, circulatim canaliculato, sursum dilatato, ad umbilicum fere tectum angulatim plicato. — Long. 13, diam. 8 mill. (Mor.)

Cyclostoma semicanum Morelet Test. noviss. II. p. 20. N. 131.

Habitat in insula Pinorum prope Cubam.

35 Chondropoma? sericatum Morelet. † 491 b.

T. profunde umbilicata, ventricoso-conoidea, apice decollata, sericina, semidiaphana, tenuis, rugis confertissime crispis et strigis nonnullis in ultimo anfractu decurrentibus asperulata, fulvo-rubella, obscure multifasciata; anfr. 4 convexi, sutura profunda discreti, ultimus turgidus, circa umbilicum spiraliter

sulcatus; apertura ampla, recta, elliptica; perist. duplex, margine interno emergente, externo expanso, radiatim plicatulo, umbilicum callo tenui, nitido, albido, convexo occultante. — Long. 18, diam. 10 mill. (Mor.)

Cyclostoma sericatum Morelet Test. noviss. II. p. 20. N. 132.

Habitat in montibus Guajaibon insulae Cubae.

p. 314 addatur:

531 a. 4 a. **Cyclostoma acerbulum Morelet.** †

T. umbilicata, ovato-conica, integra, distincte costulata, costulis in ultimo anfractu remotioribus et minus elevatis, corneo-grisea, fasciis pallide rubigineis interruptis cingulata; anfr. 6—7 convexi; apertura oblonga; perist. subduplex, margine interno albicante, nitido, externo lamelloso, parum expanso, sursum vix producto. — Long. 10, diam. 4 mill. (Mor.)

Cyclostoma acerbulum Morelet Test. noviss. II. p. 19. N. 127.

Habitat in prov. Vera Paz Guatemalae.

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p. 338. l. 18 lege *Helicina Lamarck* Prodr. 1799. p. 76 (absque typo.) — *Lam.* 1801. Syst. an. p. 94. (Typus: H. neritella.) — Ann. du Mus. etc. (Conf. Herrmannsen Ind. gen. Malacoz. Suppl. p. 61.)

p. 346. l. 9 lege: t. 8. f. 23. 24. (nec f. 20. 21.)

p. 368. l. 22 lege: angulo prominulo (nec: callo prominulo).

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nominum et synonymorum.